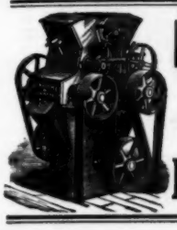
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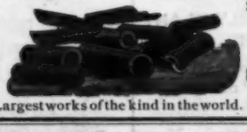


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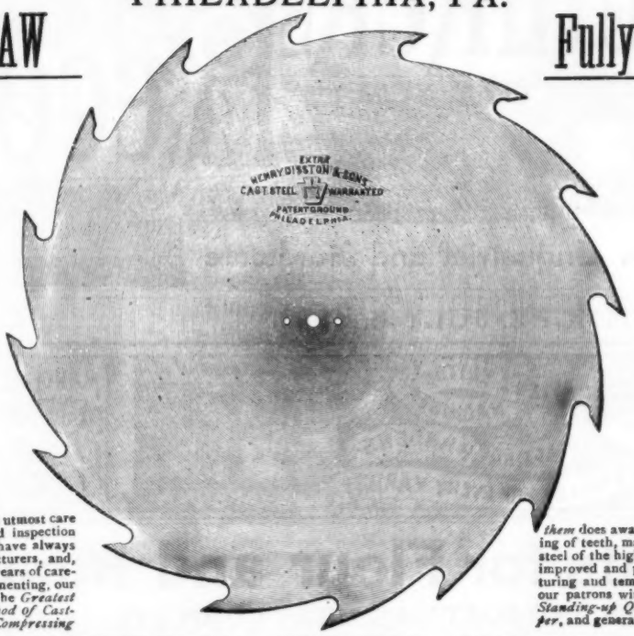
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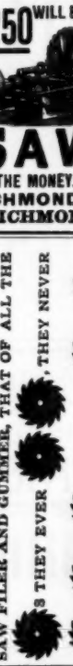
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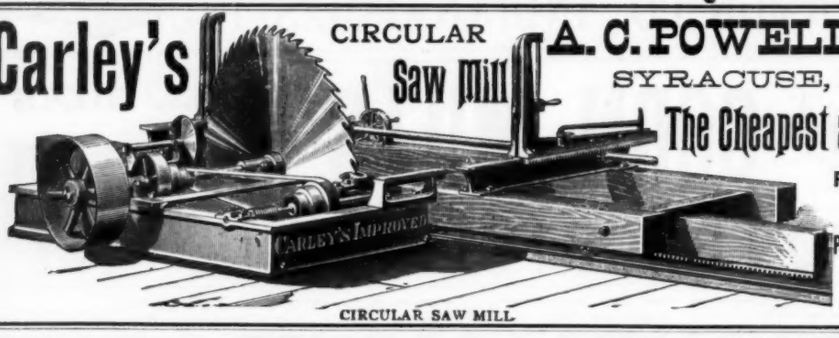


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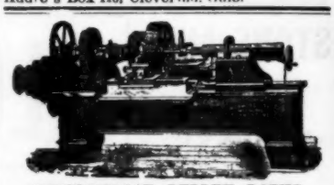
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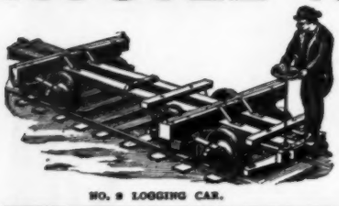


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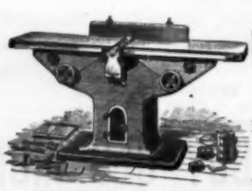
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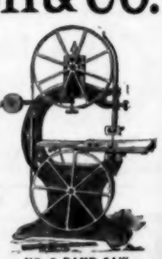
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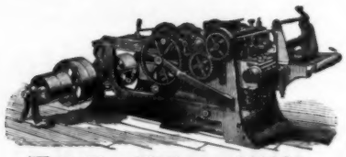


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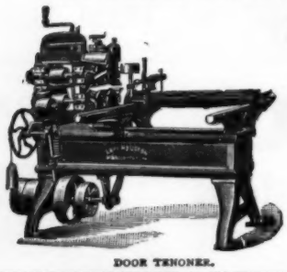


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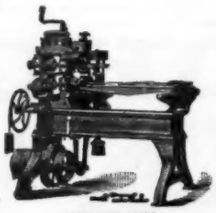
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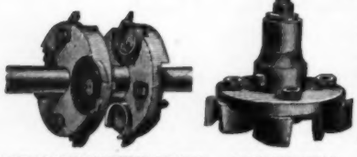
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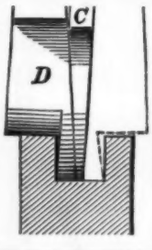
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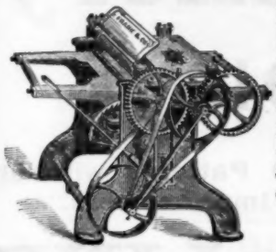
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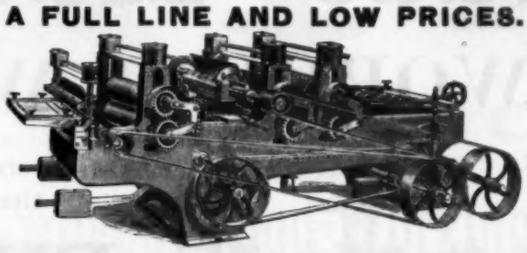
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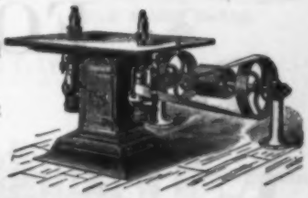
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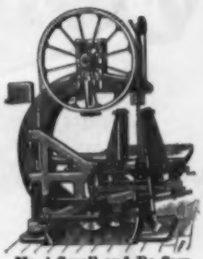
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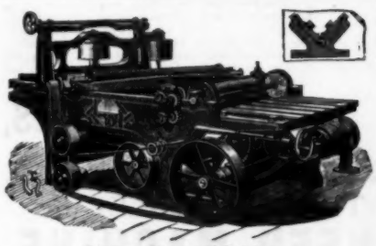
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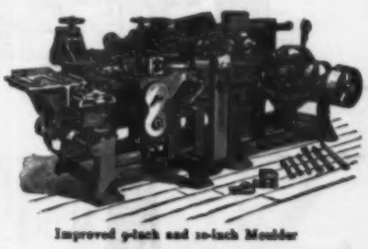
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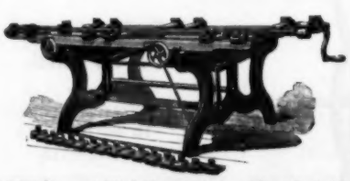
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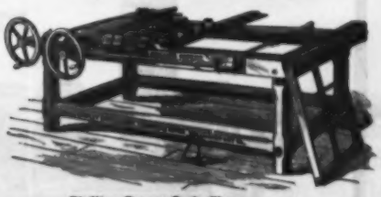
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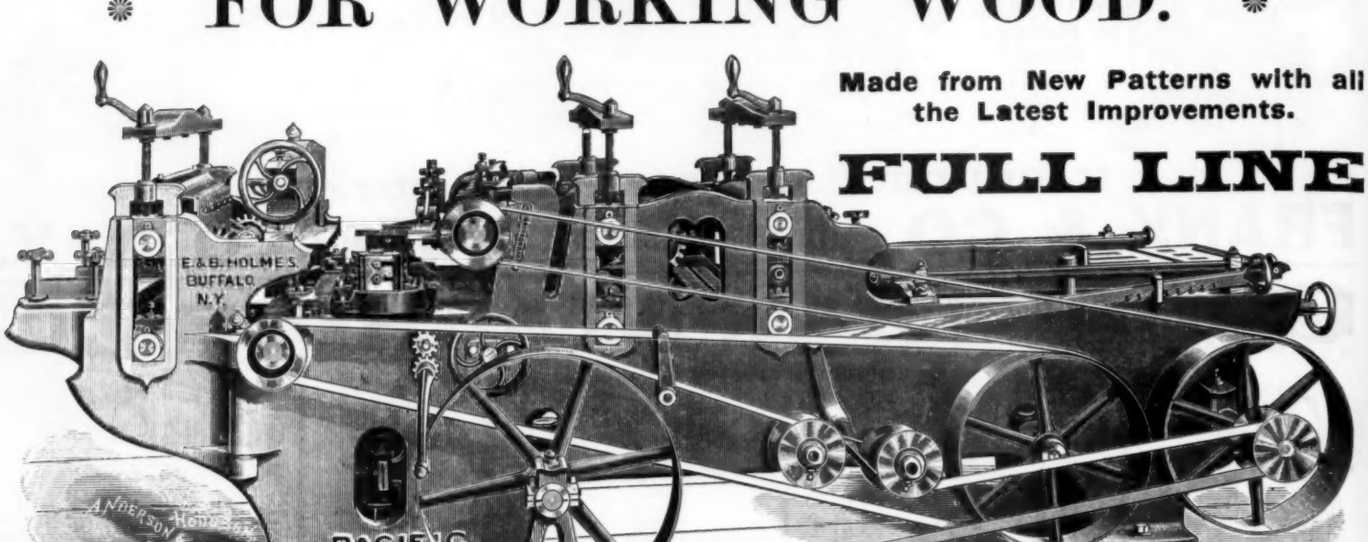
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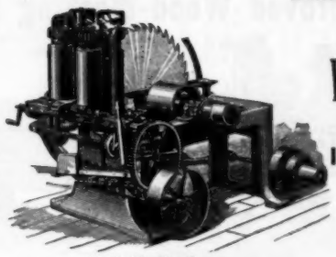
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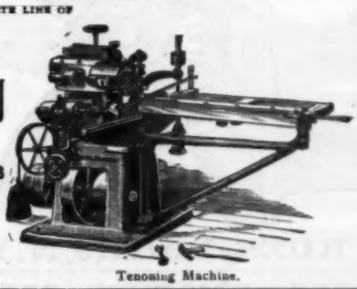
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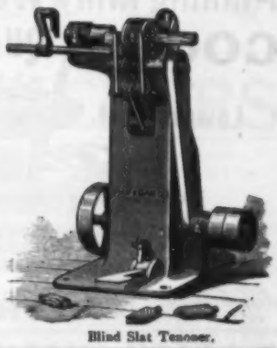
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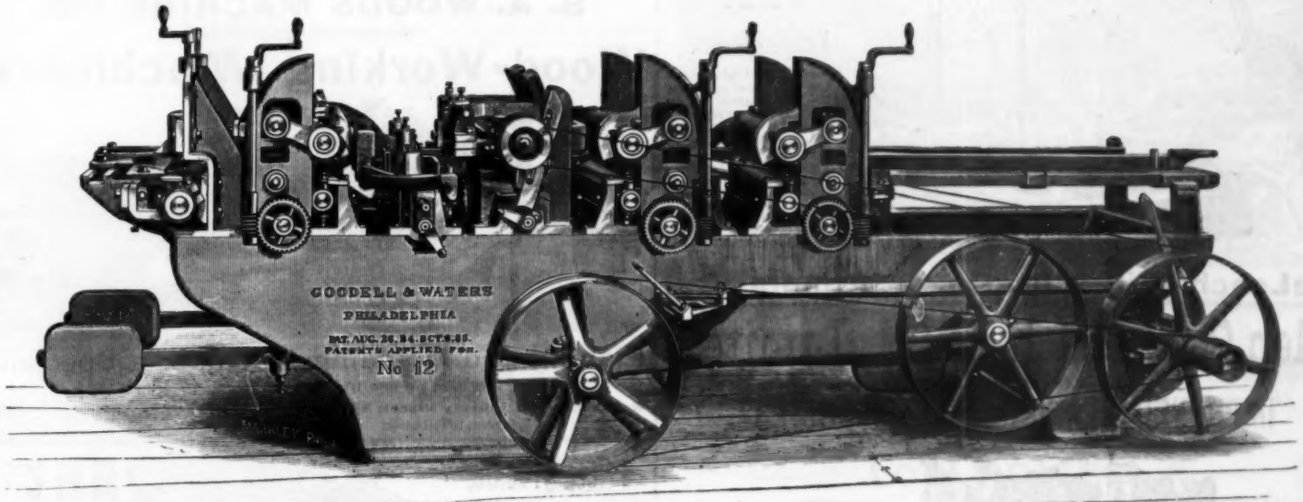

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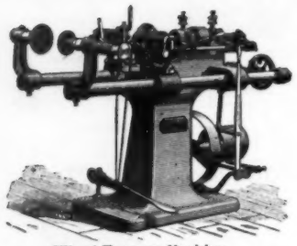
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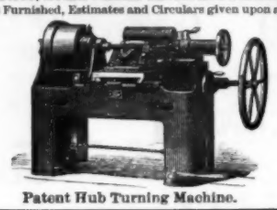
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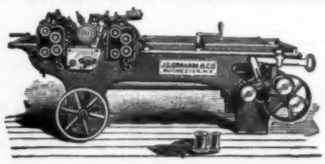
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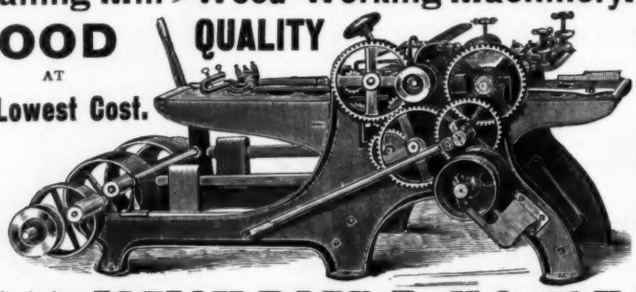


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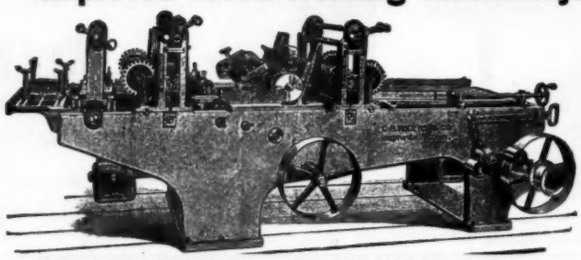


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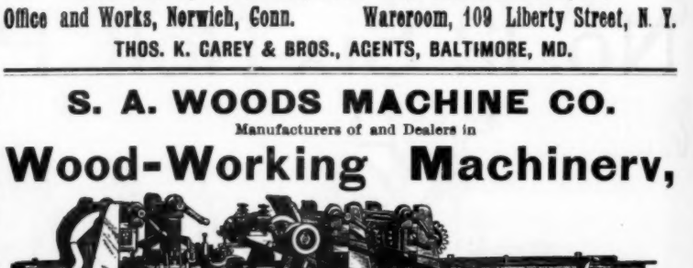
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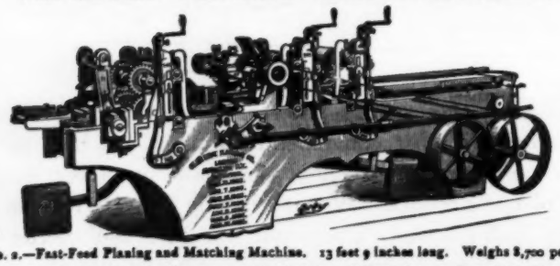
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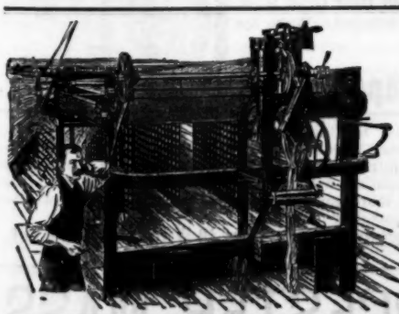
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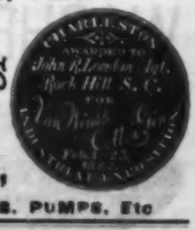
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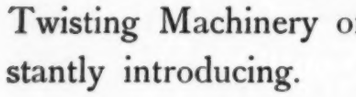
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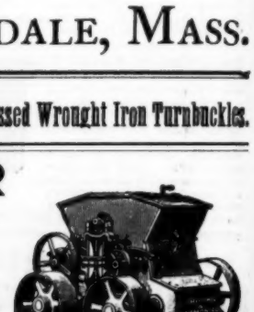
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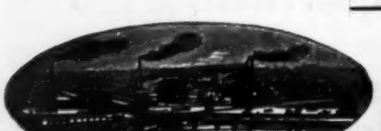
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BALTIMORE, JULY 6, 1889

IT seems to be very generally understood that the Cotton Oil Trust has practically captured the Southern Oil Co. with its eight big mills. The latter company was organized two years ago by the Oliver Bros., of Columbia, S. C., Mr. D. A. Tompkins and others to fight the Trust, but the fact that Messrs. Oliver Bros. and Tompkins have for several months been vigorously building new mills on their own account, has seemed to indicate that whether the Southern company through the majority of its stockholders united with the Trust or not, they would individually operate independent mills. There are going to be some lively times in the cotton-seed oil business in the next year or two. The Trust is grasping for an absolute control of this great industry, and the fight is going to be very warm. Added to this are the many new discoveries that are being made for the utilization of every part of the cotton-seed. It will be well if the South can prevent the Trust from monopolizing the business.

Another Oil Company.

A new oil company is about to enter the field as a competitor of the great Standard Oil monopoly. The new company, as previously mentioned in the MANUFACTURERS' RECORD, proposes to build a pipe line from Barren and Warren counties, in Kentucky to Louisville. There are two companies to be consolidated, one in Louisville and the other in Cincinnati. The company has been operating so quietly during the twelve months of its existence that very few outside of a chosen circle have been aware of the existence of the company. To this secrecy the company owes its success in securing leases on 80,000 acres and options on 20,000 acres more of valuable oil and gas lands in Barren and Warren counties, covering a scope of country about 35 miles in length and averaging over 4 miles in width, or about 140 square miles, including Glasgow and Bowling Green within its limits. These leases include the right to drill for oil, gas and minerals, and to lay pipes, etc. They run for ten years and as long thereafter as oil, gas or minerals shall be found in paying quantities. Plenty of capital is said to be back of this new corporation.

Look After the Detail.

The numerous great enterprises that have been undertaken in the South during the past ten years give promise for an industrial growth and high state of prosperity there that has never been equalled in any part of the world. This great future is not due alone to the deposits of mineral, but to the fertility of the soil and to the great abundance of timber and other advantages. But the degree of prosperity which the South reaches will depend, not on these bounties of nature, but upon the care with which the people look after the details. A ship may be sent to sea with a very valuable cargo, but the voyage will not be a success if the details are not looked after. The cargo must be so stowed down that it will stand any amount of pitching and rolling and weather any gale.

The South is to be the great iron working center of the future; it will produce most of the world's cotton supply, much of the lumber, and a large percentage of other products. With this abundant wealth it cannot be expected that the people of the South can reach that degree of economy and thrift that the people of Holland have reached, but they can approach close to it. They can do thoroughly whatever they undertake. They can manufacture their own iron into steel rails, or into watch springs if desired. They can manufacture their own cotton and sell it in the foreign markets in competition with the English product. They can make their timber into matched boards, or into fine carved furniture or cabinet work. They can spin and weave their wool, tan and manufacture their leather, raise their own wheat and corn, supply themselves with meat, butter and cheese; in short, make themselves practically independent in almost every article of necessity, and at the same time be the world's leading producer.

This is not a visionary picture of the South of the future. It is a condition of things which is even now being rapidly worked out. A few years ago the South imported all her machinery, household furniture and other utensils—her clothing and even much of her foodstuffs. Now she makes machinery in great variety, makes some of her furniture and clothing, raises most of her grain, and not only supplies herself with small vegetables, but has become the truck garden to the North.

It is the raising of small vegetables, the making of shoes or harness, or the building of steam engines, the weaving of cloth, the spinning of thread, the knitting of yarn, the churning of milk, and the building up of a thousand and one other smaller industries like these in which the future wealth of the South lies. The small industries must accompany the great ones.

So it is in methods of transportation. Railways in themselves will not build up the South. Brazil has some fine railway systems, but they are of little use. Why? Because there are no good roads for the farmers and other produces to get their goods to the railway. The MANUFACTURERS' RECORD is gratified to see that this question of roads is being agitated. The Lineville (Ala.) Democrat well says:

> Were the farmers of this county to sit down and calculate the loss to them from bad roads, they would find that they, of all men, should be the first to bestir themselves to secure good roads. Bad roads mean to agricultural population loss of time, decrease in the value of their marketable products, and not inconsiderable loss in wear and tear of vehicles and horses. A complete and good system of roads would be of inestimable value to our farming community and increase the value of their lands and products. By all means let our farmers manifest an interest to better roads.

The Greenville (S. C.) News, the Charleston World, the Anderson Journal and other papers are giving the subject of better roads careful consideration. The News says:

> We do not know whether the figures can be accurately obtained without special and detailed enquiry, but we think it safe to say that the counties spend an average of $2,000 a year each in maintaining roads. This represents 5 per cent. interest on $1,360,000, and it might be well worth considering whether it would not pay the State to issue bonds for somewhere between half a million and a million dollars, the proceeds to be used in connection with the convicts and the vast number of days of road work placed at her command by the present law. Action of some kind is necessary. There are few decent roads anywhere in the State, and all we do is to make them barely passable for the hauling season year after year. We are dumping thousands and tens of thousands of dollars into mud holes without filling them or diminishing their capacity for breaking axles and twisting wheels and costing time and labor.

The attention that these smaller matters are receiving indicates that the South is on the right track, and is building up a foundation upon which the South of the future, which we have depicted, will rest firmly.

THE Pensacola (Fla.) Commercial is vigorously working for diversified industries for Pensacola. This is a subject that the MANUFACTURERS' RECORD has constsntly urged upon the growing towns of the South, and we welcome the Commercial under the standard of the good cause. In a recent editorial the Commercial says:

> The phenomenal success of the Pensacola Jeans Pants Manufacturing Co. should encourage the inauguration of other small industries in this city. There are a dozen departments of the ready-made clothing trade alone that could be supplied from the needles and sewing machines in our midst, if some enterprising citizens would take the initiatory step. Why not have a shirt factory, an underwear factory, a cuff and collar factory, and so on *ad infinitum* All that is needed is a little push Why should we forever swing our whole weight to the end of a pine log?

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Emigrant Aid Associations.

Between the years 1853 and 1860 the people of many States, South and North, sent thousands of families to Kansas, to whose going they contributed material aid in money and supplies. These contributions were prompted by antagonistic motives which quickened the general zeal. Before the great question at issue was decided, Kansas shook off her territorial swaddling clothes and strode into the national arena a fully equipped State. Since then (in less than thirty years) it has become one of the most prosperous commonwealths of the Union. The pioneers who settled Kansas were not paupers, although very few of them could have been called wealthy. They were as a rule young, energetic and accustomed to hard work. A majority were agriculturists, the remainder mechanics and artisans. They settled down to their avocations as soon as they selected locations, and in spite of the interference of political duties and bitter conflicts, which occupied much of their time and thoughts, they planted farms in the wilderness and founded cities which soon had a wonderful growth. Aided emigration laid the foundations of Kansas and contributed to the construction of its substantial prosperity. The survivors of those pioneers and their numerous descendants are active factors in its never-ceasing progress.

A system of aided emigration may be devised for the South with marked advantage to the whole country. This cannot be done by Acts of Congress or of State legislatures, nor would aid from either source be desirable if it could be had. To be of the highest practical value it must be given by voluntary associations, organized on business principles. A savings bank is an institution governed by well-defined rules and conducted by business methods which enable it to do a grand philanthropic work. By taking care of petty sums of money and adding steadily to them the interest earned, they teach the poor how to accumulate by the exercise of thrift and self-denial. At the same time, by gathering in driblets of money from the multitude, they obtain large sums that can be loaned on unquestionable securities, for the construction of buildings and the enlargement of trade. The savings bank principle should enter into the plan of an emigrant aid association, for the system, to be successful, must combine thrift and economy in its management, with good judgment in the selection of its beneficiaries. It must also make sure the safety of the capital invested and a reasonable profit thereon. The MANUFACTURERS' RECORD believes that the plan it is about to outline meets all these requirements.

An emigrant aid association may be organized by any number of capitalists under the general corporation

laws of most of the States. Its objects should be to purchase large tracts of good farming land in the South, to divide them into tracts of not less than twenty acres each, to build on them suitable farm houses and outbuildings as fast as the demand should arise, and to sell them on long time to industrious, capable men. The purchaser should be required to pay six per cent. per annum on the purchase price, to keep his premises insured, and to pay an instalment of not less than $50 a year on the principal. If at any time he wishes to pay whatever balance may be due, his right to do so should be guaranteed. Owners of suitable tracts of land in the South should have the opportunity to sell their land to a company and to take their pay in its stock. A small profit added to the cost of land purchased for cash or its equivalent in stock would be sufficient to pay all incidental expenses of the business.

There are thousands of families of the right stamp in the North and West who would be glad to purchase farms in the South on such an instalment plan as has been outlined. Many of these are young farmers who have money enough to buy stock and tools for a small place, and to support themselves and families until they can make their crops after getting their land in condition, but who have not enough to buy property cash down. Another and very large class are skilled mechanics with large families, who earn excellent wages and manage to put something in the savings bank when trade is brisk, but who have frequently been compelled to draw out and spend their little hoard when dull times came and there was little or no work to be had. To such men an opportunity to buy a farm on the instalment plan would be most welcome. They could command as much ready cash as the young farmers, and they would have this additional advantage in the South, that there would be frequent calls for their services as mechanics, for skilled workmen are not numerous anywhere in that section, and often in country places none can be found.

It would not be wise for an emigrant aid association to organize with a very large capital until the plan had been tested and experience had shown the best system for making it effective. Numerous details would suggest themselves to the association as their enterprise progressed, and until it had passed the experimental stage. With a capital of $50,000, one half well invested in land, a successful business could be started, and when that had demonstrated what could be done, the enterprise could be enlarged indefinitely.

The wealthy in all our large cities are continually called upon to help the poor, and they as a rule respond generously. The number of alleged charitable associations in New York is very large, and many of them (if the papers of that city are correct) are humbugs. Sometimes those who honestly engage in relieving the poor are an injury to the community, because, by giving aid without asking any return from those able to make it, they are unconsciously increasing the ranks of professional paupers, but not so in an enterprise of this kind. In times of strikes and of long continued business depression many capable men would be saved from poverty, as well as from the demoralization of protracted idleness, if an emigrant aid association were ready to show them the road to independence.

Cotton-seed Hulls and Live Stock.

The MANUFACTURERS' RECORD has already told of the remarkable results that have followed the feeding of cotton-seed hulls to live stock and of the new source of almost untold wealth thus added to the possibilities of the South's future. This subject is one of great interest. It makes the raising of live stock one of the assured sources of large profits in the cotton States, and it adds greatly to the value of cotton seed. In fact, cotton from the stalk to the fibre is almost daily proving its marvelous possibilities, and new ways for utilizing it are constantly being discovered. Bearing upon this subject Mr. W. R. Davie writes to the News and Courier, of Charleston, as follows:

While in Rome, Ga., last March I saw something that was a revelation to me.

Mr. Arthur Sullivan, of the firm of Towers & Sullivan, showed me in one enclosure about seventy beeves (generally old work oxen) that had been fattened on cotton-seed hulls alone. No corn, no fodder, hay or shucks, nothing but cotton-seed hulls as they came from the huller of a seed oil factory just across the street, and many of these oxen were so fat that they would not stand up except to eat, as fat and fine as any I ever saw come off the mosquito grass of Western Texas. Around three sides of this enclosure were covered sheds containing troughs filled with hulls from which the beeves fed, and the fourth side contained similar troughs constantly filled with pure water, to which they had constant access. That was all, cotton-seed hulls and water.

Subsequently, I met a gentleman living in the city, who told me that he had a milch cow to which he had been feeding bran, meal and hay at a cost of thirty cents per day, for which the cow yielded him four quarts of milk per day, at a cost, outside of labor and trouble, of 7½ cents per quart. He had been induced to change her ration to cotton-seed hulls, with a small amount (one pint at a feed, I think) of cotton-seed meal, with the result of an increase to eight quarts of milk a day, at a cost of four cents a day or half a cent a quart.

Later on I met Mr. Isaac Gailliard, late of Fairfield county, this State, who told me that having lost a large amount of hay by fire in January last, he had since fed seven milch cows on cotton-seed hulls alone for roughness at a cost of two cents a day each, that is, the hulls cost him fifteen cents a hundred pounds, and the seven cows just ate one hundred pounds a day, and with the addition of a small ration of meal, kept in beautiful condition and yielded milk generously. I saw the herd—fine, fat, sleek Devons—and they gave every evidence of the highest condition.

It was indeed a revelation to me and showed up a vista of the vast possibilities of the cotton producing region in cattle growing, dairying and beef production.

I have given the subject much thought since, and wish through your columns to make some suggestions to my brother farmers.

Cotton-seed oil mills are being built in every part of the State and of the South; a large portion of the seed annually produced will soon be sold to these mills and taken off the plantations; the competition between the mills will put the seed to a price that will induce the farmers to part with them. At present the greater part of the meal is returned to the land as fertilizer, but the hull is lost and worse than lost, because the mills, having to pay the transportation on that much extra weight, of course pay less for the seed, as oil is the desired product and the hulls produce no oil. If an oil mill was in the immediate vicinity of every farm it might pay to sell the seed and buy back the hulls, possibly, but this is generally impracticable; what, therefore, I suggest is that all parties owning gins, portable or stationary, should provide themselves with improved coston-seed hullers and hull all the cotton seed except those needed for seed on the farms where produced. The kernels could then be sacked and shipped to the mills, either for money or in exchange for cotton-seed meal and the hulls kept at home, turned into milk, butter or beef, after passing through the cattle could be returned to the land in a manure rich in potash, phosphate and ammonia, and equal, pound for pound to one-half its weight of the standard commercial fertilizers.

In this way I am convinced the establishment of cotton-seed oil mills can be made a blessing instead of a curse to the cotton farmers, and another jewel added to the crown of "King Cotton."

Water Works.

One of the most hopeful signs of growth throughout the South is the increasing demand for water works, not only in the newer towns, but also in the smaller towns that have been quiet retreats from the day they were incorporated. It requires an immense amount of energy to galvanize a quiet settlement into burdening itself with debt, or with large expenditures to obtain such improvements as water works, but no town that starts out on this good road can ever regret it.

Next week Winchester, Ky., votes on the question of establishing water works. Some of the good conservative citizens there are anxious to wait awhile, and not move too fast in such matters. They want the town to grow and be prosperous, but they are a little afraid there may be some cost to them in the growth. But happily these people seem to be in the minority, and the probability is that Winchester will have her water works. This story of Winchester is that of every other growing town. In establishing such enterprises, people forget that waiting awhile means not only stagnation, but going to seed. Progress costs! Of course it costs! Our country grows every year; but this growth is only brought about by a great expenditure of energy. So, in these many towns throughout the South that are seeking to widen their borders of usefulness, their growth will cost an expenditure of energy, but when once on the road to success, there is a great impetus left from the energy already expended, and the excitement of seeing enterprises spring up only urges on to more effort.

The Death of William Henry Woods.

The South has need for great leaders, for men of enterprise, of broad views, of unquestionable integrity, who can command the confidence of the capitalists of the North. She needs such men just as much as she needed great generals in war, and the work which the leaders of to-day are doing is destined to have a greater influence upon the world's history than that of those who led her armies into battle. They are leading her people from poverty to prosperity. The South can ill afford to lose such men, but one of the foremost has fallen. In the death of Mr. William Henry Woods the South has lost one of her ablest champions in the great financial center of the country. Nothing that we could say would express this loss more forcibly than the following tribute from the New York Daily Times:

Wall-street in its busiest hour was sadly shocked yesterday. Death stalked in through the tumult and the bustle and the height of life and claimed a notable victim. William Henry Woods, attending to a business engagement in his own office, fell dead; it was heart disease. His brother, Mr. Samuel Woods, of Savannah, Col. John M. McKleroy, of Anniston, Ala., and President Edmund D. Randolph, of the Continental National Bank of this city, were with him when he died. Physicians were summoned, restoratives were tried; all effort was vain.

Col. Woods had an eventful career in his less than fifty years of life. A mere boy in an Alabama town when the war broke out, he was one of the first of all the volunteers whom enthusiasm hurried into the service of the Confederacy. He rose quickly from the ranks of his Eufaula Light Artillery; he was speedily a captain and later attained his higher rank. He had no promotion that was not won by courage. He fought throughout the war. He was in the bloodiest battles; he was always at the front; danger never deterred him one whit, and for his devotion and his daring he won the love and the faith of as brave a company of men as was in all that war time.

Physically he was never a strong man, and the wounds of battle told upon him too. But when the war was over he hastened to the ranks of the great contingent quitting the battlefield for the pursuits of industry and commerce. He was continually a worker. He established a cotton factor and commission firm at Appalachicola, Fla.; later he built up the prosperous house of W. H. Woods & Co. at Savannah, still in existence; then he came to New York, and the firm of Woods & Murphy became one of the most influential on the New York Cotton Exchange. He made money; he made friends. In social life, as in business circles, he was popular and honored. From the presidency of Savannah's famed Oglethorpe club he was welcomed to the Union club of the metropolis.

As he had been brave in war, he was modest and gentle and generous in peace. The devotion he gave his family of wife and children was divided only in the love he had for Dixie. The New South was as dear to him as life, as dear as the old South, for which he had gallantly risked and endured all; and he worked for Southern interests with an enthusiasm and an unselfishness incomparable; he accomplished much. The Alabama Mineral Land Co. induced him to become its president; the Anniston City (Ala.) Land Co. had him as its most influential director; he led and won the fight of the oppressed minority shareholders of the Memphis & Charleston Railroad; he

was identified with a long list of Southern enterprises, and in his circle of personal and business friends were the foremost and the stanchest men who have standing in Wall street. He could control capital illimitable; he was trusted by men who by training and of business necessity are skeptical and cautious to the furthest degree—trusted by such men implicitly. And never was one trust betrayed, one promise broken.

"Paper Cities" and Other Frauds.

Frauds seem to be a necessity. At least, every good object and cause is hindered to a greater or less degree by them. We do not refer to humbugs which are known to be such, and which people investigate to see where the humbug is, but to schemes built up as "lean to's" to honorable effort. In matters of business, religion or charity these frauds abound.

In the development of the South there have been some frauds, such as some of the several "paper cities" in Florida, and some land and development companies, which have been organized for the express purpose of defrauding people. The MANUFACTURERS' RECORD has always strained every nerve to check these frauds and to enlighten people, so that only deserving companies should attract capital. It has repeatedly refused to accept advertisements which it believed to be misleading and of a fraudulent character. It aims to be as careful in guarding its advertising columns as its reading pages.

Many small investors in the North have been caught by these frauds. One such investor recently stated that he had bought several lots in a growing and most promising city in Florida as an investment for his children. He had two boys and he had been led to believe that by investing from $10 to $20 in these lots, the property would increase so rapidly in value that he could send the two lads through college when they were old enough to go to college, an increase of about 2,000 per cent. in fifteen years on this investment. Another small investor was led into a land and furnace company that proposed to pay enormous dividends, without having the necessary basis on which to pay any, and of course it soon ceased to exist.

Legitimate enterprises in the South will, we believe, pay a larger profit than similar enterprises in the North or West. But to expect exorbitant returns for an investment is a mistake. We are pleased to notice that these frauds are now very generally understood by most people and have not received support enough to sustain them. The enterprises of the South now are, on the whole, bona fide and worthy of support.—Small investors will find in them openings for their accumulations that will pay good returns.

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An Illustration of Diversity in Manufactures.

The MANUFACTURERS' RECORD has for years urged the importance of a diversification of industry in the South, and a few weeks ago we stated that Florence, Ala., had probably accomplished more in that direction in the last twelve months than any other place in the South. This is a subject of so much interest and importance to this whole section, and the success of Florence in establishing a wide diversity of manufactures has been so great, that it is worth while to give a list of the new enterprises at that town. From the Florence Herald we take the following:

The manufacturing plants now in actual operation at Florence, are as follows:
The McAlester Jeans Manufacturing Co.
The Cypress Cotton Mills.
The Sweetwater Shoe Manufacturing Co.
The Florence Stove & Manufacturing Co.
The Curry Cotton Cultivator Manufacturing Co.
The Serage & Reynolds Pump & Lumber Co.
The Iowa Land & Lumber Co.'s Planing Mills.
The Florence Woodenware Works.
The Russell Spoke & Handle Factory.
The Sweetwater Ice & Coal Co.
The Florence Brick & Contracting Co.
The Florence Suspender Factory.
The F. H. Foster Manufacturing Co. (This company will put to work 75 or 100 more skilled workmen in a few weeks). (Locks and small hardware).
The Bennie Bucket Manufacturing Co.
The Florence Chemical Works.
The Snape Tapestry Works.
The Florence Planing Mills & Manufacturing Co.
The Florence Electric Light & Power Co.
The Florence Steam Laundry.
The Florence Paper Box Factory.
The F orence Flouring Mills.
Larock's Carriage Factory.
The Cypress Water Works.
The Florence Publishing Co.

Besides the above, there are a number of magnificent enterprises now under way and are going forward to completion as rapidly as money and skill can force them, among which are the Florence Wagon Works, (to employ 250 hands), the Laycock's Tapestry Works, the Gibson-Hilliard Spoke & Handle Manufacturing Co., the canning company and others.

This list does not include the magnificent plant of the North Alabama Furnace Co., nor the W. B. Wood Furnace, the former being now completed and ready for operations. Nor does it include the three plants just located by the Alliance Exchange.

The above indicates a diversity of manufacturing enterprises that few cities in the South can show, and yet they constitute but the nucleus of what is to come. The several development companies organized and at work here, with brains and money at their heads, have machinery at work that will concentrate her manufactures that will give increased impetus to our onward movement and make this a great city.

Here is a clothing factory, a cotton mill, a shoe factory, a stove foundry, agricultural implement works, pump factory, planing mill, spoke and handle factory, woodenware or wooden butter dish works, ice factory, brick works, suspender factory, hardware factory making a wide variety of builders' hardware, bucket factory, tapestry works, paper box factory, carriage and wagon factories, canning factory, two furnaces, &c., while many other enterprises are soon to be added to this long list. Nearly all of this has been accomplished in the last twelve months. It shows a remarkable diversity of manufactures, affording employment to all classes of labor, men, women and children, and taking all kinds of crude material—ore, timber, cotton, clay, &c., and producing the finished goods ready for consumption, such as clothes, stoves, agricultural implements, locks and general hardware, wooden work, shoes, carriages, &c. This is the best illustration we know of to show what can be done and what one town has already done to diversify Southern manufactures. We commend the example of Florence to every city in the South, and especially to those which are centering their entire attention upon one or two lines of industry. Diversity of production and diversity of employment are the great essentials for permanent prosperity and growth, and Florence has done well in realizing this.

A Million Dollar Sugar Refinery.

It looks as though Baltimore is at last to have the great million dollar sugar refinery for which so many efforts have been made during the past five or six years. About $800,000 have, it is said, been definitely subscribed, and the prospects for the balance are so good that the projectors of the enterprise feel safe in claiming the refinery as assured. It is to have a daily capacity of 1,200 barrels, and in its construction the very latest and best machinery is to be used.

It is almost needless to point out the very great advantages that Baltimore will derive from this enterprise. Sugar refining was, for many years, one of the leading industries of the city, and the loss of this business in 1873-74 proved the most serious blow that the commercial interests of this city ever received. With the building of this refinery Baltimore will take a long step forward towards the the building up of her manufacturing and commercial interests, which in this case are so closely connected.

With the immense iron and steel plant now going up just below the city, where the Pennsylvania Steel Co. has completed two furnaces of 250 tons daily capacity each, and is building two more of the same size to be followed by steel rail works and other enterprises, and then this $1,000,000 refinery under way, there will be fair prospects of Baltimore's developing her manufacturing interests on a scale commensurate with her advantages.

WITHIN the last decade or two many young men from the South have gone North to be educated. Many of them have struggled against poverty and lack of thorough fundamental education, but they have so applied themselves as to win the highest praise from their professors and the college authorities. These young men are now scattered among the numerous educational institutions of the South, and are doing work that is not excelled in any part of the country. They are building up educational institutions which show the same spirit of energy and progress that we find in the various industries.

Many academies and colleges have announced that they find increased facilities necessary to go on with their good work. Not only are new buildings and apparatus being provided, but new teachers are being sought. With a few years more of this thorough work and steady progress of these institutions, the educational facilities between the State university at Austin, Texas, and Johns Hopkins at Baltimore, will scarcely be inferior to those between Bowdoin at Brunswick, Me., and Johns Hopkins.

Diversification of Industry.

Hon. Edward Atkinson Talks of the South, its Advantages and its Opportunities.

Hon. Edward Atkinson, the distinguished statistician of Boston, who was invited to deliver the annual address before the students of the South Carolina University, presented many facts worthy of thoughtful consideration by the people of the whole South. From his very able address we take the following:

"* * * How many of you, I wonder, yet know what opportunities you have at your disposal, waiting no longer for Northern capital, but now being developed by Southern enterprise? Was I wrong when but a few years since I ventured to describe this land, in which, until a very recent day, two or three million homespun people, still using archaic forms of English speech, were almost the only dwellers? Was I wrong when I said that if a line were drawn southerly from the Potomac along the easterly margin of the Piedmont plateau, westerly on the Southern edge of the uplands of Alabama, northerly to the Ohio along the margain of the Cumberland plateau, taking in that most fertile and beautiful country that eye hath ever seen, the blue-grass region of Kentucky, and back again to the point of beginning, that boundary would enclose an area more than three-fourths as large as France and twice as large as Great Britain, containing potentials in agriculture equal to either, with minerals and timber equal to both combined? That land was waiting only for the mind of man to become the prime factor in production. That I was not wrong, let the great enterprises of the New South bear witness. I need not name them.

It is the function of the economist to deal with these elements of wealth and welfare, and to evolve the laws of social science to which all human statutes must be made subordinate, so that the gratuitous gifts of nature with which you are so abundantly endowed, and in which we may share by the exchange of services, may be converted equitably to the use of man. I might have given you the title of this address: 'Individual liberty the only condition on which material welfare can be assured.'

Given just laws and local self-government established under the central sustaining power of a great nation; given equal opportunity and free commerce between the States, under which each man may provide for his own wants by rendering service to his neighbor, and we may then discover that while our consumption is limited the power of production is practically unlimited.

It begins to appear from the true history of the last two or three centuries that the most potent cause of war among men in modern times has been the false conception of the functions of commerce.

It may be held that the well-being of this country has been secured more fully by that clause in our Constitution which forbids State interference with commerce between the States than by any other of the provisions of our organic law. Under these conditions each section is free to develop its resources in its own way. I am also profoundly convinced that the true education consists in home education, in the development of the schools, the colleges and even the universities in which the foundation is laid just where the best work of the future is to be done. The post-graduate courses in special lines may be concentrated elsewhere, as they are in the Johns Hopkins University in Baltimore, and as they are to some extent at Harvard. You will bear in mind that I speak to you as a man of affairs addressing

those on whom the conduct of affairs in your own State and in your own vicinity will mainly rest, and who will develop the productive industry of your own section in just the measure that you learn that the mind of man is the prime factor in all arts.

I have said that the main question now pending is not one of production; an abundance is already assured in this land for this and for many generations yet to come The main question now at issue is that of distribution. How shall the several sections of this country share not only in providing the abundance, but in securing an equitable distribution of their respective products, receiving in return that part of their subsistence which they obtain by exchange?

Let me now call your attention to what I think is the most wonderful chapter in economic history, the true bearing of which neither you nor I can yet measure nor estimate, to wit: the industrial progress of the South since the way to material progress and prosperity was first opened by the establishment of p rsonal liberty throughout this whole broad land

I may venture, perhaps, to treat this subject in a very concise way at this time, because it will fall to you, the graduates of this and other Southern universities, to supply the mental factor which, as I have already said to you, is the prime factor in material proportion and material welfare. With respect to certain products you hold almost a monopoly, and monopolies are perhaps more dangerous to those who purport to enjoy them than they are to those who are not subject to pay for them. It is fortunate for you that you have not the absolute control of the cotton trade. There is just enough possibility of competition elsewhere to compel you to apply science, skill and economy to the growth and preparation of this great necessary staple, and you have a great margin for improvement to work upon. Your supremacy in the production of the cotton fibre is due to the gift of God, and not to the skill of man; you have the temperate climate, cold enough in winter to prevent the cotton plant becoming a perennial; you have the great central range of mountains, gathering the moisture from the winds that blow in over the Gulf Stream, precipitating them in showers, seldom in destructive floods; you have the strong soil of the upper-country over which the glacial drift never passed, and from which the phosphates so necessary to the production of cotton have not been washed out; you have the lowland soil redeemed from the shallow sea, full of minute shell and other elements of fertility, yielding the phosphates so necessary to the production of the seed of cotton which is the true function of the cotton plant, the fibre being only the wing of the seed The seed takes fifty pounds of phosphate from the soil to each bale of cotton, while the fibre takes but four. In these natural conditions you excel all other areas of the world in which cotton grows except Egypt and the region on the Paraguay and the Parana rivers, now being so rapidly settled by the Italians. So long as the Egyptians are despoiled and deprived of personal liberty, as they are now and always have been, by the oppression of debt and taxes to which the people never gave their consent, and of which it is the disgrace of civilization to enforce the payment since that payment almost reduces the population to starvation—you have not much to fear from them, although the staple of their cotton is better than yours and although as a rule it is better prepared for market. Of course in making this comparison I take no cognizance of the litte crop of sea island cotton which does not belong to the useful class and only serves for purposes of luxury. You may be subject to competition in the somewhat distant future when the region on the Paraguay and the Parana rivers is fully settled, and the attention of the Italians, who have been bred in habits of the closest econony and thrift, is given to the production of the cotton fibre. You may then, if not sooner, be forced to change your methods of treating your cotton in the preparation of the bale and on its way to market. There is no great commercial staple so barbarously treated as the cotton bale of the South, even at this time, except the crude products of the most barbarous races of Asia and Africa. This is not a pleasant thing to say; but observe that in saving waste there is a great margin of profit which the intelligence of the South may reap even from this improvement, when the present bad method is acknowledged. Yet in spite of what still has to be done witness the vast progress that has made even on this very line.

The first pamphlet that I ever published was printed in the year 1861, entitled "Cheap Cotton by Free Labor," and in that pamphlet I brought together all the evidence which even then existed precisely, as it does now, of the value of the seed of cotton. I made the record either in that pamphlet or in a subsequent magazine article, I forget which, that if there were a variety of cotton plants which would grow in the Northern States, producing no staple and only seed, it would become one of our most valuable products. You have now but just discovered this new source of wealth, which had been known in China for five hundred years or more. While the cotton-seed rotted to waste in the olden time, your sugar cane craved the phosphates which cotton-seed meal now supplies after the oil has been expressed. That is now known, and the sugar-cane is fertilized as it had been in Formosa for five hundred years. I see that soms one has just discovered that the ground hulls mixed with the meal make a better food for stock than the over-rich meal fed by itself. In that again there is nothing new.

Again, you may have such an advantage in the production of iron as may enable you to draw a large part of that branch of industry away from some of the places where it is now conducted, as that work was taken away from New England and from other points, when anthracite coal was substituted for charcoal in dealing with the ore. But it will not be by the direct establishment of the production of pig iron or crude steel that the general welfare of the South will be assured, whatever may be the gain in personal wealth. It is the consumption of iron which marks the progress of a State, not its production.

In 1880 the State of Pennsylvania yielded about one-half the pig iron produced in the whole United States; and if we should take the estimate of the representatives of that State in respect to the importance of this branch of industry, we might almost fear that the State of Pennsylvania would suffer from the competition of Alabama; but such will be very far from being the fact. If Alabama can send up to Pennsylvania a larger supply of pig iron and crude steel at less cost than it can be produced within her own limits, Pennsylvania will make the greater gain. In 1880 the population of Pennsylvania was nearly four and one-half million, of whom nearly one and one half million were occupied in gainful work in the conduct of all the arts of life. How many do you think it required of all this great army of industry to work the iron mines, the coal mines which supplied the blast furnaces, and the blast furnaces themselves, from which nearly or quite one-half the pig iron of the country was sent out to be put to use? Less than thirty-five thousand men and boys out of nearly a million and a half did this work. If the South should take this art away from Eastern Pennsylvania, a few great chimney stacks may remain as reminders of bygone work; but when you send to her machinists, to her artisans, to her engine builders, to her tool-makers, to her blacksmiths, to the hundreds or even thousands by whom iron is consumed where there are ten engaged in its production, even in that State, then the little force of men discharged from beneath the ground or from the mouth of the fiery furnace may find higher occupation and better pay in the consumption of iron and steel in Pennsylvania than they ever found in making iron there.

These examples bring me to the point to which I urgently call your attention. The secret of prosperity and of widely diffused welfare does not lie within the walls of the great factory; it is not to be viewed by the light of the blast furnace; it is not hidden in the dark interior of the bowels of the earth; these are but the crude factors. It does consist in the thousand little arts which spring up in the sunshine of personal liberty, which make the village pervade the farm and bring men and women into closer and better human relations than those either of the factory, the furnace or the mine.

It has been a favorite idea of my own for many years, long before we heard so much of manual training and of the laudatory method of teaching the mechanic arts, that in every university a chair should be established to be occupied by the professor of gumption. I could not myself lay down the course of study or name the text-books, though perhaps I might teach the art myself.

I have referred to the bad treatment of the cotton bale To the young man who possesses gumption there is the way to fortune in saving a part of that waste In the department of the university devoted to the art of gumption, one of my rules would be that in each year two or three months should be devoted to journeying on foot through the land, as the German Burschen used to and perhaps do now, in order that each young man might find out how little people know, and also how much less he knew himself than almost anyone else In this way he might find out that the true object of the university is to learn how to begin an education, and to know where to go and what authorities to consult in its future conduct

Not many months ago two of my Southern friends, Mr. Breckinridge, of Kentucky, and Mr. Wilson, of West Virginia, visited Boston. They were on the committee of ways and means, and they desired to look over some of the branches of industry in Massachusetts, on whose materials or products they might be called to legislate. They were put in the way of visiting the great factories. I went with them to one large city where I had arranged that after they had been through the factory they should go to one of the factory boarding houses and partake of the customary meal which is furnished to the factory operatives; the best breakfast, dinner and supper that could be had for the price anywhere within my knowledge; and I have made a special study of the distribution and the use of food. They returned to the city much impressed with what they had seen. In the evening, when dining with me and with some other friends, I said to them: "I wish you would come to my office to-morrow morning, and I will take you to the points where you will find reason to change your conclusions if you think you have touched the secret of New England. You think you have touched that secret, do you not?" "Why, yes," they said, "we might think so," to which I replied: 'You have not: all that you have seen is commonplace. Where I shall take you to-morrow I do not know, but in an hour I will disclose the secret which is open to all who possess gumption." They came, and we went up a narrow court opposite the Old South Church, into a nest of buildings plastered all over with little signs, a busy hive of industry, covering arts almost without number. In the first room we entered we found two men beating out gold leaf for the dentist; in the next we found a man and a boy seated by a little furnace and a little forge, shaping steel knife blades, too busy to stop the little trip-hammer or even to speak to us; in the next half a dozen men working in wood, turning athletic implements of various kinds, and so on; and when the hour was over I said to my friends, "Come back here and stay a week, and in every fifteen minutes of ten hours of each day I will take you to the places where in the making of the goods and wares there is the making of the man as well; and even then I shall not have begun to exhaust the tale of the lesser arts for which gumption is required."

I have been rejoiced in my more recent visits to your Southern land to see how this secret is being disclosed to you. Don't think that you are to succeed in competition with the North by way of long hours of work and low wages in the factory or in the mine. You will not subject us to any serious danger in the control of the thousand industries until you have learned the whole secret, that shorter hours and higher wages bring low cost of production where gumption has been taught, and where the leisure earned by him who does the work in the best way becomes the opportunity for the diligent and intelligent use of his spare time. It is on these lines that you should devote that mental factor which is the prime factor in material progress in every single art on which true prosperity can be predicated.

Information Wanted—A Discussion Invited.

A leading business man of the South in a letter to the MANUFACTURERS' RECORD says:

I have seen somewhere the following questions. I have never, however, come across answers to any of them in public print, and would like to invite a discussion on them with a view of discovering what method has proven productive of the fairest and best results. It is of course a question how far public discussion of them will prove beneficial. The tendency of the age being towards a free discussion and comparison of the best methods in almost every direction, it may bring out valuable experiences on these questions:

CO OPERATION.

1st.—The desirability of all employees participating in the earnings of the house.

2d.—If desirable, to what extent and upon what basis?

3d.—Should such an arrangement imply proportionate responsibility for losses in case of a bad year, or under any other circumstances?

4th.—The effect in case of general participation of the employees toward each other.

COMPENSATION FOR SALESMEN.

1st.—Whether it is better to have a fixed salary or one based on profits, realized from individual sales or a combination of both.

2d.—In case of either of the two latter plans what is a fair percentage and what orders should be thus credited, i. e, all that issue from the traveler's assigned territory or only such as he sends in?

3d.—What is the best method of keeping such a record and what goods are commonly excluded from such arrangements?

VACATIONS AND ABSENCES.

1st —What length of time is allowed for the annual vacation without loss or diminution of salary?

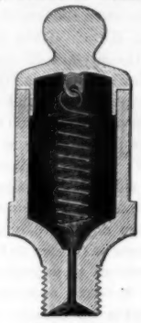
2d.—Is it customary to extend this on request at the cost of the absentee? What class does this embrace if any difference is made?

The MANUFACTURERS' RECORD will be glad to have these matters discussed from a practical business standpoint and invites contributions upon the subject.

The IXL Oiler With Self Closing Cover.

This oiler, a cut of which we give, represents a very ingenious device for the closing of the cover without the screwing on of same as is common with the ordinary oiler.

As will be seen by this sectional diagram the spring, which is made of the best



IXL OILER

piano steel wire, is attached to the cover and passing down through the oil way is fastened in the concave threaded end of the same One can see at a glance that the method of filling this cup would be simply to lift the cover to one side, or tip it up sufficiently to admit the oil when it flies back into place, and no amount of jar or motion can displace it. This of course obviates the losing of covers, besides the fact of its being much more convenient than other styles Manufacturers of portable and traction engines, and in fact manufacturers of all classes of machinery, where there is an excessive jar, will appreciate the advantages of a self closing spring cover.

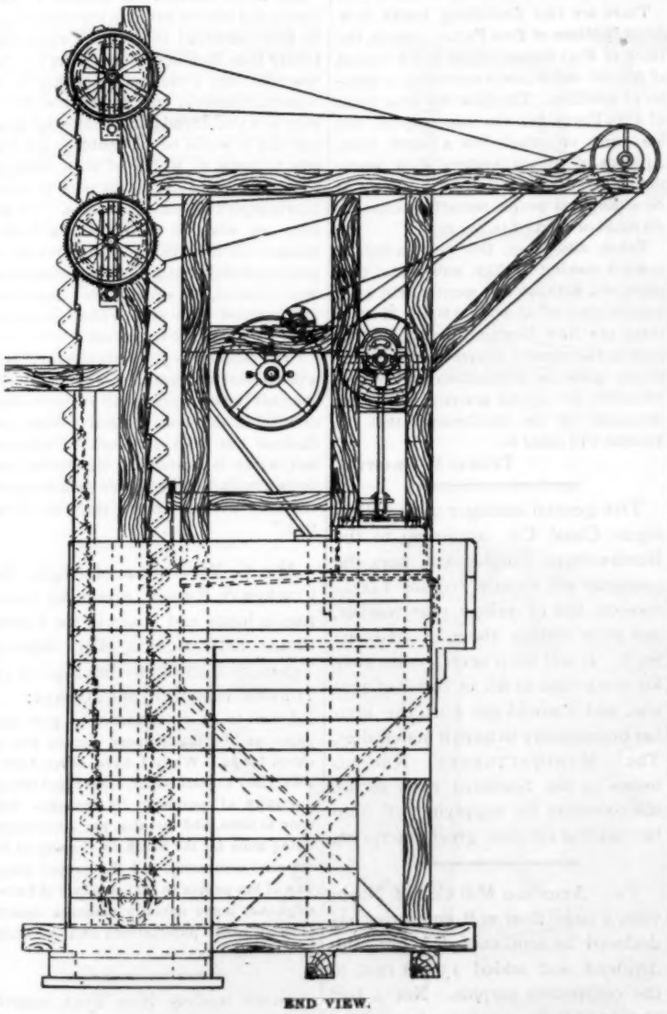
The manufacturers of this cup are the Penberthy Injector Co., of Detroit, Mich., who will furnish any further information regarding this article.

McLanahan's Ore Jig.

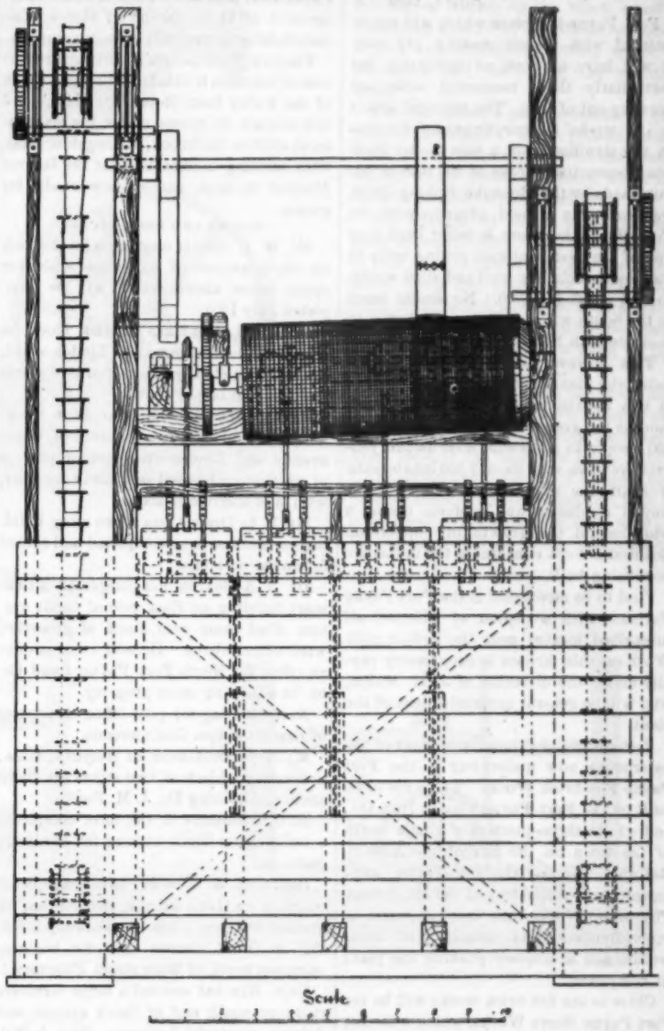
Some very able articles and books have been published upon the subject of wealth from waste, which should have some practical effect upon manufacturers, for they have clearly shown that fortunes are being thrown away through thoughtlessness.

If business men would take advantage of the various economies possible, their account at the bank would be none the less for the effort.

We illustrate to day a new jig for the concentration of ores, which we think is worthy of the consideration of all furnace men desiring to economize. This machine is the result of a system of practical experiments, having taken long and patient work to bring it to its present perfection. It not only makes a perfect separation of the ore, but it is easily operated, simple in construction, and has large capacity. They are built four in a set in one tank, one or more sets being used to a plant. Supply elevators or conveyors (not shown in cut) deliver the ore in regular supply to the revolving screen, which classifies it into four distinct sizes each size passing to a different separating bed, after jigging the ore and refuse are taken up by separate elevators and deposited into bins for shipment or direct into cars. The cylinders and plungers for agitating the water are of iron, fitted as correctly as a steam engine, and driven by a variable eccentric by which the stroke can be adjusted to suit the different grades of material. The construction of the separating beds and discharge gates form the special feature of these jigs; both the ore and foreign matter form a continuous discharge, and both are distinctly visible to the eye of the operator at all times.



END VIEW.



SIDE VIEW.

Another important point is the return of the overflow water, only sufficient water being discharged to carry off the sediment. This economy of water is sometimes a matter of considerable importance.

The proper preparation of ore especially the hematites, is a subject that has received considerable attention from many mines and furnacemen, and they have generally been well paid for any expenses in improving the grade of their ores. Mr. McLanahan, being largely engaged in mining and manufacturing, the success of this jig was to him a matter of considerable importance in his own operations. There are many furnacemen who have never attempted to estimate the cost of smelting the foreign material contained in their ores. It is not usual to find furnaces using ore containing 20 per cent. of foreign matter, and yet it might be used after jigging, and it will generally be found to pay the use of jigs if only 5 per cent or less of foreign matter can be jigged out It is well known to the metallurgist that it costs more to smelt the foreign matter than the same amount of ore.

In estimating the cost of using low grade ore, not only cost of coke, lime and furnace labor must be considered, but freights, handling and storage, taking care of increased amount of cinder; also loss from decreased production, &c, and in these times of sharp competition, we must take advantage of any improvement that promises a decreased cost of production. These jigs are built by McLanahan & Stone, Hollidaysburg, Pa., who will answer all inquiry in regard to them.

Subscribe to the MANUFACTURERS' RECORD.

IRON FURNACE TO BE BUILT IN TEXAS—PHILADELPHIA, PA., June 29, 1889.—We have closed contract with Lone Star Iron & Steel Co., of Jefferson, Texas, for a 12x60 blast furnace plant complete. Will complete same in about six months. This company is composed of wealthy Chicago men.
GORDON, STROBEL & LAUREAU, Lim.

CONTEMPLATE BUILDING PULP MILL—ROANOKE, VA., June 25, 1889.—We are thinking of organizing a company here for the purpose of building a pulp mill, and want information as to where we can find proper machinery, &c.; also names of parties that would likely give us information as to the worth of it, &c. It will be made from wood of the best variety.
WALLER P. HUFF & CO.

TO ENLARGE FURNITURE FACTORY—ASHEVILLE, N. C., June 27, 1889.—We are incorporated under the laws of North Carolina, and propose to do a wholesale lumber business, buying as well as manufacturing same, and also to greatly increase our facilities here for the manufacture of furniture. Our contract for material and machinery for this addition have already been placed.
ASHEVILLE FURNITURE & LUMBER CO.

A $90,000 CHURCH BUILDING—ST. PETER'S CHURCH, WASHINGTON, D. C., June 28 1889. The church when completed will cost at least $90,000. Will be heated by steam.
J. M. O'BRIEN.

WILL ENLARGE WORKS—NEW ORLEANS, LA., June 26, 1889.—Will increase our capacity 33⅓ per cent.
STANDARD CHEMICAL MANUFACTURING CO.

FACTS ABOUT FORT PAYNE.

The Foundation Being Laid for a New Era of Great Prosperity.

Some of the Plants and Buildings Now Finished and in Course of Construction.

[Special correspondence MANUFACTURERS' RECORD.]

On the "F. F. V." VESTIBULE TRAIN, July 1, 1889

Fort Payne is a place which will not be satisfied with simply making pig iron. It will have all sorts of industries, but particularly those connected with and growing out of iron. The editorial article in last weeks' MANUFACTURERS' RECORD on the significance of a sale to the Baldwin Locomotive Works of 200 tons of bar iron made by the Roanoke Rolling Mills, was indirectly a good advertisement for Fort Payne, for there is being built here one of the best equipped rolling mills in the South, including nail and steel works, to cost about $150,000. No similar plant in the South will stand a better chance to compete with Northern rolling mills.

This, however, is but one of the many industrial plants under way and projected at this flourishing town, which in a few months has grown from a sleepy village of 200 people to a modern, wide-awake, progressive town with about 2,500 inhabitants. Nor are the improvements here in the way of residences and business houses a whit behind the growth of population. But first a word concerning the industries now being built.

First to be mentioned is the Fort Payne Furnace, with a capital of $100,000 all subscribed, located near the rolling mill. Work on this furnace is progressing rapidly under the direction of J. H. Mullin, who will be general superintendent of the plant.

Perhaps the next most important of the enterprises now under way is the Fort Payne Fire-brick Works. These are to be built by the Fort Payne Coal & Iron Co., and will be three-quarters of a mile south of the town on the line of the A. G. S. Railway. Mr. W. Gorland Taylor, until recently superintendent of the Mt. Savage Fire-brick Works, has been engaged as superintendent and manager of these works, and is actively pushing the plant to completion.

Close to the fire brick works will be the Fort Payne Stove Works, which will cost $17,000. These will be among the most extensive stove works in the South. Mr. T. J. Leveque, of Chattanooga, is superintendent and manager.

The North Alabama Lumber Co. (cash capital $35,000) is located a quarter of a mile from the railroad depot, and is being rapidly pushed to completion; in fact, by this time it is, perhaps, ready to go into operation.

The Fort Payne Planing Mill is completed and running to its utmost capacity.

A. J. Kekhoff & Co. have erected a large carriage factory on Gault avenue, South end.

Two large brick-yards are running full force and turning out good work.

Large lime works have been erected and operated by E. C. Stoddard, with capacity of 100 barrels per day.

Coal is being developed rapidly, four mines now being opened and developed. It is claimed that this coal is superior in quality, and for coking equal to Connellsville. Contract for railroad is let to run to and through these mines.

Iron is being rapidly developed; about 50 men employed therein; large quantities being uncovered by stripping, both soft and hard, the quantity being inexhaustible.

HOTELS, &C.

The Hotel "De Kalb," situated on Gault avenue, now nearly ready for occupancy, contains 100 rooms, with every modern convenience, electric light, gas, hot and cold water, with bath rooms on every floor. W. N. Burseil is proprietor of the De Kalb.

The Wills Valley Hotel has been recently remodeled and is now under management of C. B. Gardner, of Boston, Mass. This hotel has 50 rooms now available.

A large and desirable boarding house has been recently completed by the Fort Payne Coal & Iron Co., and is under management of D. C. Blodgett; also a first-class lodging house built by same company.

The new "Sanitarium" building, in process of erection, is situated on opposite side of the Valley from Hotel "De Kalb," and will contain 50 rooms, under the management of Chas. Holbrook, of Kingston, Mass. This building is situated near the famous Mineral Springs, and is now ready for guests.

STORES AND RESIDENCES.

Mr. W. P. Rice is erecting a brick block on Gault avenue of six stores, with fine opera house above, which will be completed July 15th.

Dr. J. M. Ford has a brick block on corner of Gault avenue and Linden street, nearly completed, consisting of two stores and pleasant offices above.

Fort Payne Hardware Co. have three-story brick block on East corner of Gault avenue and Linden street under process of erection, to be used as a hardware store, with hall and offices above.

Mr. F. L. Draper has a two story building on Gault avenue completed and rented for an eating house.

Dr. J. A. Sexton has completed a two story building on East side of Gault avenue, filled same with stock of groceries, with offices above. He will erect at once an office for North Fort Payne Land Co. on lot adjoining store property.

New building for post-office in process of completion on Gault avenue.

Mr. A. E. Dickinson, of Holyoke, Mass., is erecting a block of two stores on Gault avenue, adjoining Dr. J. M. Ford's.

H. C. Rushmore & Co. have completed a building on Gault avenue for hardware business.

Boorman & Fowler have completed building on Gault avenue, two stories, for grocery business; this was the only building on Gault avenue used for business purposes north of Main street February 1.

Capt. Nix has erected a large furniture store on south end of Gault avenue, and doing a successful business. Rice & Wilder have completed a large two-story double building on Gault avenue, now in use by the Wilder Furniture Co. and Fort Payne Herald, the latter a new weekly journal started since April 1st, under management of James M. Vernon. This building has recently been sold to C. H. Bartlett, of Manchester, N. H.

Mr. M. W. Howard is building a fine brick block on Main street, which will be used for store purposes with offices above.

Mr. E. W. Robinson has completed building on Main street, now used for dry goods store. In addition to this he is about erecting another two-story building for commercial purposes.

Three stores recently built on Main street, all occupied for grocery purposes, &c.

Messrs. J. & C. W. Doe have completed building on Grand avenue, and fitted same with large stock of drugs.

Mr. W. P. Rice is erecting a fine residence on Gorham avenue, ready for occupancy September 1st. Cost of same $7,000.

Mr. S. S. Houghton, of Boston, Mass., is erecting three fine houses on Linn street.

Dr. A. B. Green has a handsome residence nearly completed on the "heights."

The Fort Payne Coal & Iron Co. have erected an exhibit hall near Grand avenue, which contains samples of the many minerals abounding in this section.

The Fort Payne Coal & Iron Co. have contracted with Mr. Sutphin, of New Jersey, to establish a system of water works for town at cost of $40,000.

The Fort Payne Coal & Iron Co. have set apart a tract of land in south part of town for use of colored population, termed "Douglass Addition," upon which 14 houses have already been completed.

Miss Mary Perkins, of Portland, Me., has let contract for residence on Alabama avenue to cost $1,400.

Two fine residences will be built at once under contract in "Choate Addition."

Contract let by Fort Payne Coal & Iron Co. for building of standard gauge railroad from coal to iron mine, a distance of 9½ miles, to be completed October 1.

200 coke ovens will be built the coming season by the Fort Payne Coal & Iron Co., about three-fourths of a mile south on line of A. G. S. R. R.

Number of houses erected February 1st and in process of erection, 350.

Population February 1, 531; estimated now, 2,000.

Location has been selected for cotton mill which is expected to be built the coming fall.

I have gone into these small details simply to show what can be done in the way of rapid work in town building. Fort Payne is a child of New England, and this last illustrates what New England is doing for it.

FINANCIAL INSTITUTIONS.

There are two flourishing banks now doing business at Fort Payne, namely, the Bank of Fort Payne, which has a capital of $50,000 and deposits exceeding a quarter of a million. The First National Bank of Fort Payne has the same capital, but has been organized but a short time. Apropos of money matters, it is worth noting that a real estate pool made up of New England people recently declared a dividend of thirty-five per cent.

Taken altogether, this new industrial town is making healthy, substantial progress, and within a few months will have a population of at least 5,000. Most of these are New England people, and so soon as the summer is over and the health of the place is demonstrated by actual residence, the spring activity will be far surpassed by the development that the autumn will usher in.

THOMAS P. GRASTY.

THE general manager of the Nicaragua Canal Co., according to the Northwestern Lumberman, says the company will shortly require 1,000,000,000 feet of yellow pine lumber, and he is casting about in Alabama for it. It will keep several mills busy for some time to fill an order of that size, and it would not hurt the lumber business any to have it materialize. The MANUFACTURERS' RECORD hopes to see Southern mills secure the contracts for supplying all lumber needed for this great enterprise.

THE American Mill Co., of Nashville, a large flour mill enterprise has declared its semi-annual 5 per cent. dividend and added 15 per cent. to the company's surplus. Not a bad showing for the year's work.

THE American Cotton seed Oil Co., of New Jersey, mentioned in the MANUFACTURERS' RECORD as having purchased four cotton-oil mills in Texas, has now, it is stated, gathered in six more. This is probably a child of the Trust.

Mobile's Great Lumbering Interests.

Mobile seems to be fast growing into an important lumber market, according to the Register, which has been looking up the subject. Thirteen years ago the amount of lumber shipped from that city by water was 7,102,169 feet. This year the shipment will considerably exceed 60,000,000 feet when the timber is reduced to superficial feet. Within a radius of 100 miles of the city are 47 saw mills, six of them having a daily capacity of 100 000 feet or more, while the total capacity of all the mills is about 2,000,000 feet. These mills give employment to at least 4,000 people, and disburse about $150,000 monthly. B sides these exports of lumber there have been large exports of timber.

The average exports of lumber for the past three years have been 33,000,000; and of timber, reduced to superficial feet, 26,000 000; or in round numbers 60,000,000 feet. This takes no account of the large amount of lumber and sawed timber which is shipped by rail. It is a low estimate to state that between ninety and one hundred million feet of lumber and timber leave Mobile annually. When account is taken also of the great and growing shingle manufacturing business one can easily comprehend to what extent Mobile is indebted to this wood interest for her present prosperity.

Mr. A. C. Danner, the pioneer in the timber and lumber business, says that when he first conceived the idea of exporting timber from Mobile, eighteen years ago, he was told that there was no money in it, because Pensacola was known the world over as a timber and lumber shipping port, and that it would be impossible to get vessels to come to Mobile at such rates of freight as would enable the port to enter into competition with Pensacola. At the start an advance on Pensacola freight charges had to be paid to induce vessels to come to Mobile, but gradually port charges were reduced, the ship channel improved, and business grew until it has reached its present prosperous condition.

"The business is yet in its infancy," said a prominent merchant. 'The increase of the past hirteen years will be more than doubled in the next thirteen. When the channel has been deepened to nineteen feet, which is guaranteed, the lumber and timber business will receive such an impetus as it has not known since its inception."

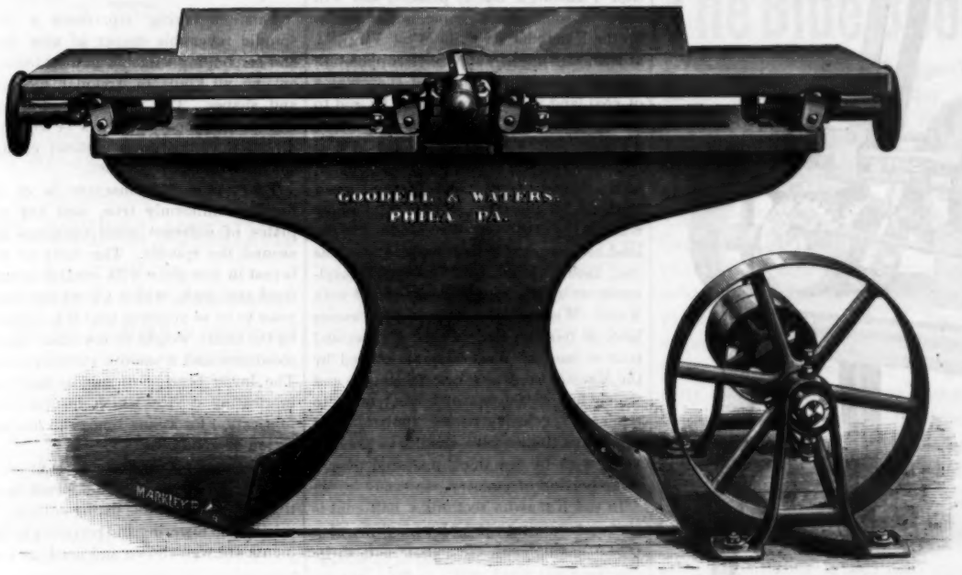
MR. G. W. ANGLE, of Angle, McCracken & Russell, agents for investors in lands and mines in the United States and Mexico, San Antonio, Texas, in a letter to the MANUFACTURERS' RECORD June 26, says:

I want to be a subscriber to your good paper, and for that purpose enclose you my check for $4. While I have never been a subscriber to your paper, I have had the opportunity of perusing its contents from time to time, and feel that you are certainly doing more for the South in the way of her material prosperity, and the proper education of her people to that standard of knowledge that home industry makes a country, than all other publications and politicians in the country.

SOME leading New York capitalists, desiring to make investments in Southern securities or properties, have formed an association and invite offers through an advertisement in this issue of the MANUFACTURERS' RECORD. The investments must be gilt edge, able to bear the closest investigation, and from first hands.

New Pattern Pedestal Jointer.

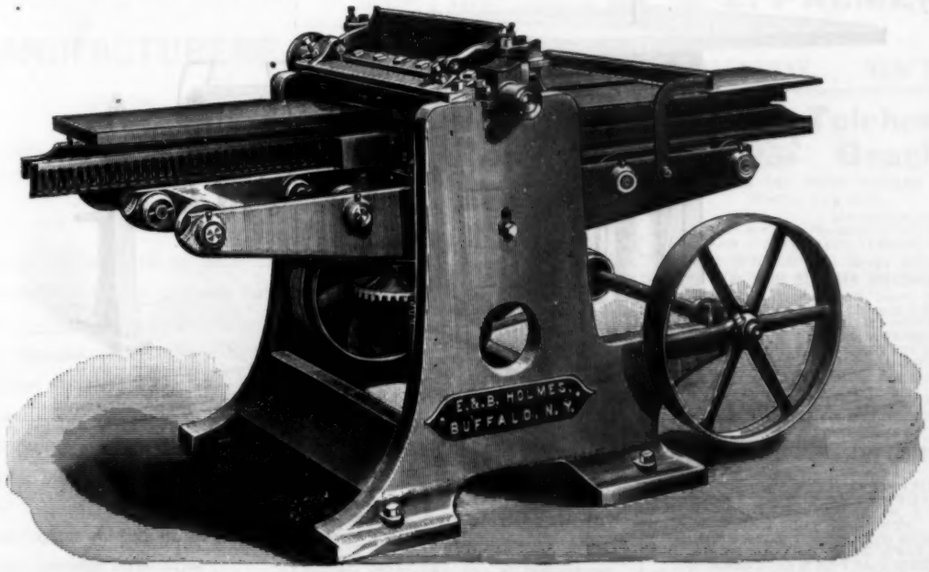
This cut represents the new pattern pedestal jointer built by Goodell & Waters, Philadelphia. It is made in four sizes, to work 12, 16, 20 and 24 inches wide. The tables are connected with the sliding frame by links working on a radius with the cutters, keeping the lips of the tables at a uniform distance from the cutters. By simply loosening the two thumb-nuts the tables may be moved back for filing and setting the knives. The cutter-head is four-sided and slotted on all four sides. For prices and further information we refer our readers to the makers, Goodell & Waters, Philadelphia.



NEW PATTERN PEDESTAL JOINTER.

Duplex Shingle Planer.

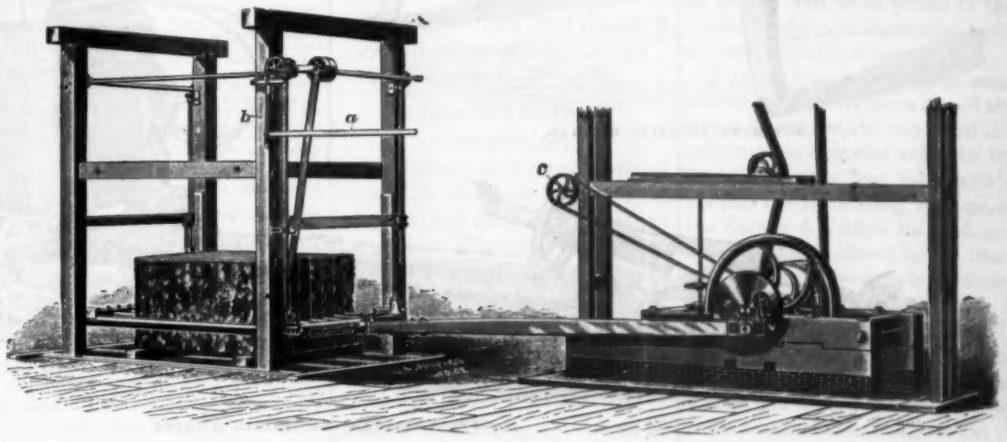
The accompanying illustration represents a duplex shingle planer of recent design and invention, and which is claimed to be the only shingle planer on the market that will plane shingles true to taper, and of uniform thickness. It will plane shingles of any length from 18 inches up to 30 inches, and any width up to 12 inches. The machine has two tables 12 inches in width that pass under the knives alternately; in other words, when one table is feeding the shingle through the machine, the other is returning. All the operator has to do is to drop the shingle or shingles into the hopper, and they are caught by the steel dog on the table and carried through the machine. The machine is very simple in its construction, and only requires ordinary skill to keep it in order, and make the necessary adjustments. Two shingles 5 inches wide can be placed on each table, thus increasing its capacity. It will plane from 15 to 20 thousand. The counter-shaft has tight and loose pulleys 10 inches in diameter 6½ inches face, and should make 730 revolutions per minute. Messrs. E. and B. Holmes, 59 Chicago street, Buffalo, N. Y., are the manufacturers.



DUPLEX SHINGLE PLANER.

The Merriman Screw Gang.

The Merriman screw gang for sawing stone, an illustration of which is shown, has been in use for a number of years and has fully demonstrated its merits. The manufacturers say: "Its superiority as a stone-sawing machine is largely due to the fact that the frame, or sash, which carries the saws, is fed down to the stone by four screws, which are actuated by an automatic feed, capable of a ready adjustment to stone of different degrees of hardness, and at the same time is held firmly down while in action, so that the pressure of the saws upon the stone is uniform. This construction also counteracts the thrusting action of the pitman on the saw frame, which becomes excessive when the saws are at the top or bottom of the block, causing a jumping motion of the frame and saws, largely neutralizing the cutting action of the saws and destroying the machine itself."



MERRIMAN IMPROVED SCREW GANG.

The cut shows a gang actuated by one pitman and called a "single pitman gang." This is the favorite plan with mill men, except where room is limited when the "double pitman" style is preferred.

The expense of the "double pitman" gang is considerably more, as the amount of iron work required is largely increased, there being and extra long crank shaft, extra crank wheel, extra set of strappings for pitman, besides some other necessary castings used in building a gang in this manner.

These gangs, the makers say, "combine all the best and most modern features and improvements in stone-sawing machinery. They include the iron saw frame, which they make of five and six-inch wrought iron pipe for sides, with heavy channel iron or steel heads. These are fastened together by our improved coupling, which makes repairs, in case of accidental injury to either pipes or channels, a very simple matter."

The feeding of the saws down to the stone is done by an automatic, adjustable "feed works," this being driven by a small belt direct upon the crank shaft.

The feed screws are supported at the bottom by an improved, adjustable step, which takes the weight of the frame from the pedestal at the top.

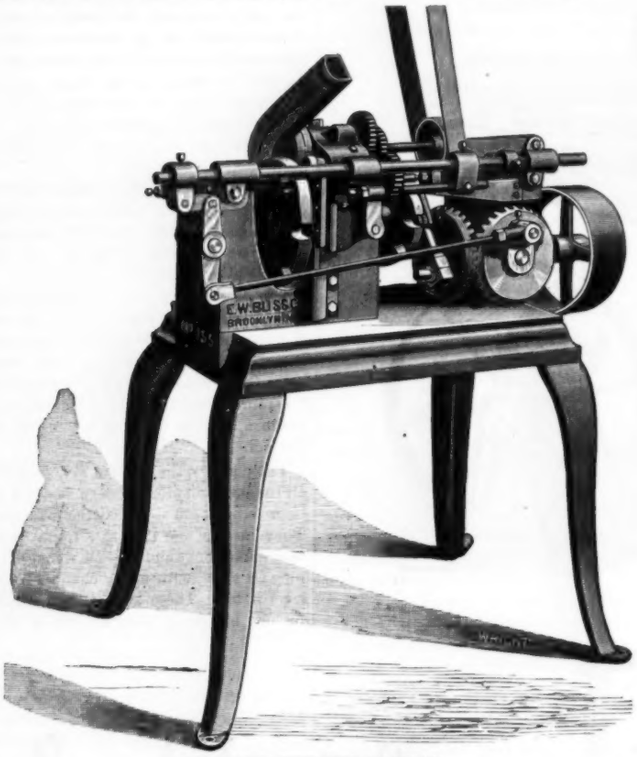
The patent crank shafts for single pitman gangs combine the latest improvements, and are made of hammered wrought iron, with an enlarged bearing for the crank end. The crank wheels are made with the wrist of large diameter and cast with the wheel, so that they are one and the same piece, and a loose crank wrist is an impossibility.

The manufacturers state that they make all of their castings, as well as all wrought iron work, of ample size and weight to withstand any legitimate strain, and have thus reduced the cost of repairs to its minimum. Any further particulars can be obtained from the Lincoln Iron Works, of Rutland, Vt.

ADVERTISERS wishing to reach the manufacturers of all classes, mining companies, steel, iron and hardware dealers of the entire South, cannot find a better medium than the MANUFACTURERS' RECORD.

Automatic Trimming Machine.

The accompanying engraving represents a new machine for trimming lamp collars and other brass shells, pill and ointment boxes, covers for baking powder and other round cans. It is one of the latest productions of the E. W. Bliss Co., Brooklyn, N. Y., who are widely known as manufacturers of sheet metal working machinery.



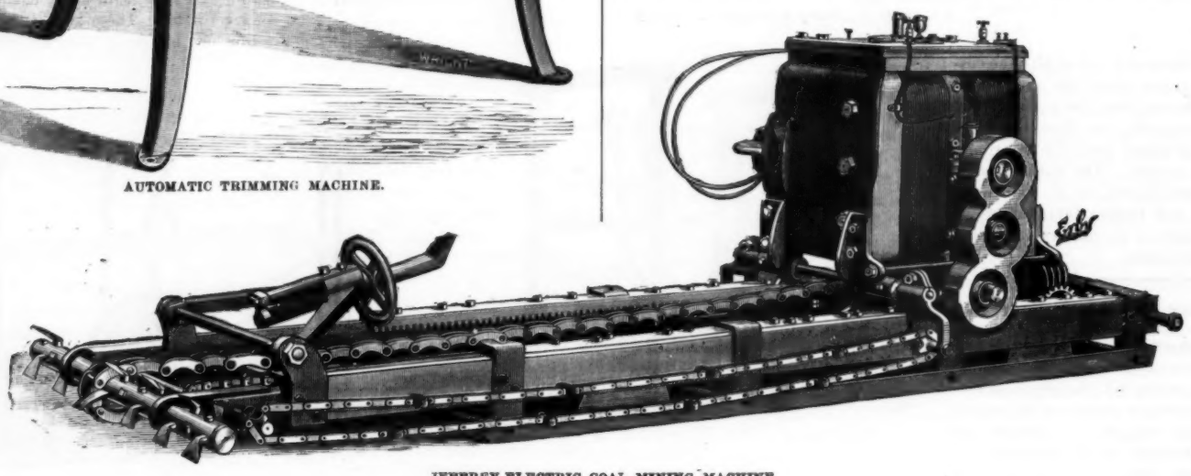
AUTOMATIC TRIMMING MACHINE.

The operation of the machine is entirely automatic, the shells as they come from the dye being placed in a shute over the feeding disk from which they are taken one at a time, carried into position in front of the trimming cutters, securely clamped, trimmed and thrown out at the rate of 25,000 or more per day.

The makers claim that because of the perfection and rapidity of its work, this machine is invaluable to manufacturers who produce large numbers of the articles above mentioned, and by reason of its rapidity reduces the cost of trimming to a minimum.

The Jeffrey Electric Coal Mining Machine.

The Jeffrey electric coal mining machine, which is now being manufactured and introduced to the coal trade, has an electric motor attached direct to, and made part of the machine; the motor uses a pressure not exceeding 220 volts, this pressure being harmless from injurious shocks. The machine, by means of the revolving cutter bar, makes a bearing in the coal or fire-clay bottom as desired, 6 feet deep 4 inches high and from 3 to 3½ feet wide; will make the cut in from 3½ to 5 minutes; it will, it is stated, undercut from 500 to 900 square feet of floor surface per 10 hours. The machine runs quietly, steadily and rapidly; is worked and handled by two men required to run it; it is strong, simple and compact, all parts being made with templets; are interchangeable, and in fact it is a complete machine for the work of undermining coal. By means of electricity coal will be mined and drilled, coal hauled and mines lighted, ventilating fans and pumps driven. The Jeffrey electric coal mining machine is in successful operation in the mines of the Hocking Valley and other districts. It is manufactured by the Jeffrey Mfg. Co., Columbus, Ohio.



JEFFREY ELECTRIC COAL MINING MACHINE.

West Virginia's Coal.

Mr. Joseph Walton, the millionaire coal operator, of Pittsburgh in a late interview, told of the great coal resources of West Virginia.

"Perhaps, said he, "the greatest competitor Pittsburgh has at present, and will have for some time to come, is the region up the Kanawha river, in West Virginia, at least one might suppose its opposition the most powerful. Many of the owners of coal land in that section may be said to have gotten them for considerably less than nothing, and 6 to 10-foot veins of coal thrown in on top of that, or rather under, as the timber above will be several times the cost of the land. Those who know what Allegheny and Westmoreland coal land has cost, or for that matter any of the coal land worked in Western Pennsylvania can appreciate the disadvantage with which Western Pennsylvania operators labor in this respect. Mr. C. Kimberland tells of land in West Virginia owned by the Marmet Co. which cost $6 an acre and which has 30,000 feet of lumber on it to the acre, exclusive of tie timber. And below this timber but a small way are coal veins 4 to 14 feet thick scattered over a large portion of country.

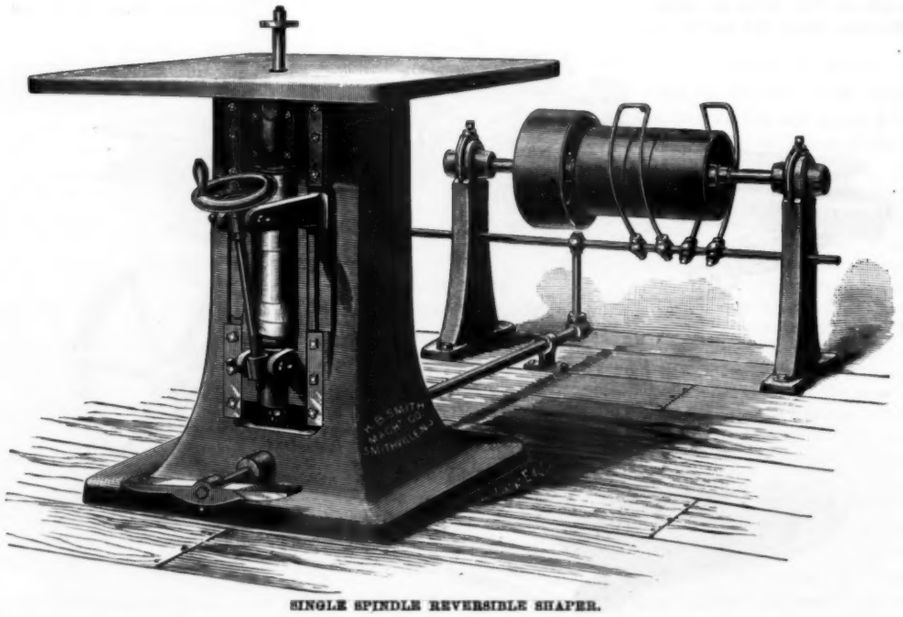
In the Kanawha sections a half cent is saved in mining, and three-eighths of a cent on shipment, compared with Pittsburgh coal, seven eighths cents altogether, with shipping water a much greater part of the year than here, and a safer channel. These two items of cost alone make a difference in favor of West Virginia of $110,000 a year as against Pittsburgh operators, and then added to this are the tolls on the Monongahela river, which cost such firms as the Browns and Walton & Co. each $16,000 to $20,000 a year."

Single Spindle Reversible Shaper.

This engraving represents a single spindle reversible shaper of new design and embodying valuable new features, for cutting all kinds of irregular mouldings and shapes. The reversible solid cutter allows the wood to always be cut in the direction of the grain without changing the uniformity of its work.

The top of this machine is of iron, finished uniformly true, and has three plates of different sized openings fitted around the spindle. The body or frame is cast in one piece with central openings front and back, which allows the spindle yoke to be so attached that it is backed up by the entire weight of machine, insuring steadiness and a smooth running spindle. The lower bearing of spindle has a new lubricating device which insures perfect lubrication for a long time with one application of good oil.

The spindle is of steel and is fitted with 2 chuck spindles ⅝ inch and ½ inch in size, together with suitable fitting collars. The raising and lowering and reversing arrangements are well shown and need no explanation. The H. B. Smith Machine Co., of Philadelphia, are the manufacturers.



SINGLE SPINDLE REVERSIBLE SHAPER.

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We are very anxious to develop our section by establishing factories. We have everything except capital, and we will make it pay capital to come to us.

We know that people flock to the booming sections, but still we do not want a boom, but a good, substantial and steady growth, such as we have had for the past ten years. The point is now reached with us that we can go no farther without capital to assist, and it will pay capital to investigate what we have to offer.

New Berne is now offering every inducement possible to aid manufacturing investors who will establish enterprises adapted to the natural advantages of this section. Address

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Secretary.

Charlottesville, Va.

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Home capital will join in the establishment and operation of factories.

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JAS. M. ALLEN, Secretary, Waterloo, Ala.

Capital Stock $200,000.

THE

Waterloo Land, Mining & Mfg. Co.

of Waterloo, Lauderdale Co., Ala.

will encourage the location of manufacturing and industrial enterprises in the town of Waterloo by donations of town lots, mineral and timber lands, and stock of the company. Persons who contemplate engaging in enterprises of this character in North Alabama are requested to consider the advantages, present and prospective, of this point before deciding to locate elsewhere. Waterloo is situated on the north bank of the Tennessee river, below Colbert Shoals and consequently at the head of summer navigation on said river. During low-water stage light draft steamers run from Waterloo to Florence, Sheffield and other points above the shoals, freight being transferred at Waterloo. At this season goods may be billed from St. Louis, Cincinnati, Louisville, Evansville and all Western river cities to Waterloo cheaper than to any other town in Alabama Chickasaw excepted. Waterloo is in the heart of the mineral belt, the immense beds of iron ore of Wayne and Lauderdale Counties lying in close proximity (5 to 10 miles). Limestone, silica and kaolin are abundant and close. The largest area of virgin forest in North Alabama lies in sight. The Land Company owns large bodies of this, together with many valuable town lots. The water supply is abundant and pure. Scores of springs bubble up within the town limits and the limpid waters of Second Creek wash the eastern border. The health of the community is unexcelled and the cost of living cheap. This is the largest shipping point for tan bark in the state. Present price of bark at landing $4.50 per cord. Special facilities for tanning leather. The Land Company will donate a large body of fine timber and mineral land in a block to secure the construction of a railroad, north or east from Waterloo, such a road being needed in connection with the unequalled facilities of water transportation enjoyed by the town. Liberal aid will be given to persons who will locate industries here that give employment to labor and add value to raw material.

No matter what you intend to manufacture, consult the Waterloo Land, Mining & Manufacturing Co. and learn what facilities for the prosecution of your business the place enjoys and what inducements will be offered you to come. All questions truthfully and fairly answered.

For further information consult the President, Secretary or Hon. Hiram Richardson, Vice-President, Waterloo, Ala.

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One BEMENT PLANER, 42x42" x17 feet. Two heads on beam with power feeds. One Side Head with hand feed. Beam has vertical automatic feed.

One SELLERS PLANER, 38"x36" x8 feet. Two heads on beam with power feed. One PRATT & WHITNEY PLANER, 20"x20"x5 feet. The above being replaced with Open Side Planers. Address

DETRICK & HARVEY, Baltimore, Md.

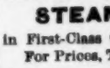
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A list and full particulars of all New Mills under construction, with expected date of completion.

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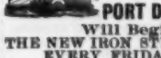
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THE NEW IRON STEAMER TOLCHESTER,

The Lightning Express, will leave Pier 16 Light Street, daily at 8.30 A. M. and 2.30 P. M., Sundays 9 A. M. and 2.30 P. M., returning to the city at 8.30 P. M. Excursion Tickets at the boat 50 cents; Children between 6 and 12 years half fare. Special inducements and very low rates to schools and societies. Apply early to TOLCHESTER OFFICE.

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GOOD MEALS. GOOD MUSIC.
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BERNHARD DIETZ, Manufacturer of **Printers' Rollers** and Roller Composition. Factory, N. E. Cor. Grant and Mercer Sts., Baltimore. Prices: Composition (bulk) 30 cents per pound; for casting, a no 30 cents per pound. Orders by mail promptly attended to.

To Those Looking

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Manufacturing Sites

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The most desirable locations in the South for manufacturing wagons, stoves, agricultural implements, furniture, or for foundries, machine shops, rolling mills and nail works, glass works, cotton or woolen mills, are to be found in Virginia along the line of the Norfolk & Western Railroad from Norfolk to Bristol, and upon its branch lines. Hard wood of every variety; cheap iron from the furnaces at Lynchburg, Roanoke, Radford, (to be built in 1889,) Pulaski and Ivanhoe; cheap coal and coke from the celebrated Pocahontas Flat Top field; glass sand from Tazewell county; cotton from the markets of the Southern States, and wool from all the Western and Southwestern States and Territories, at advantageous freight rates. Favorable freight rates made upon raw materials to all factories established upon its line, as well as to points in the United States and Territories upon the manufactured articles.

Those seeking new fields for manufacturing establishments should not fail to investigate the wonderful development in iron, coal and coke industries that has been made within the past five years along the line of the Norfolk & Western Railroad, and the advantages offered by the State of Virginia in the supply of cheap raw materials; by the Norfolk & Western Railroad in the matter of freight facilities and rates upon raw materials, and for reaching home, far distant and foreign markets, and by the cities and towns along its line in the way of advantageous sites at moderate cost. Many of the cities and towns exempt manufacturing establishments from taxation for a series of years.

For further information as to freight rates and sources of supply of raw materials, apply to A. POPE, General Freight Agent, Roanoke, Va., or to

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3 New Marine Steel Boilers,

ONE HUNDRED AND FIFTY HORSE-POWER EACH; CAN BE USED TOGETHER IN ONE BATTERY OR SEPARATELY; NOW STORED AT APALACHICOLA, FLA. For terms, address

The FILER & STOWELL COMPANY,

MILWAUKEE, WIS.

Ginning at the Factory.

Mr. D. F. Allgood Makes an Interesting Statement About the System at Trion

Here is a suggestion from the factory.

Mr. D. T. Allgood, president of the Trion Manufacturing Co., was in Atlanta this week and said some interesting things about cotton.

At Trion factory for fifteen years a system of ginning inaugurated by the late Judge A. P. Allgood has been in vogue. They give all the cotton that will come there for a fiftieth while the ordinary toll is a twentieth.

"My father used to say he could afford to gin cotton for nothing," said Mr. Allgood. "The fiftieth just about pays the expense of ginning, and we save the cost of bagging and ties by getting cotton in seed. They average thirty pounds to the bale, and that weight is usually paid for as cotton. Counting it at ten cents a pound there and three dollars we have to pay for bagging and ties on baled cotton, we can only get about sixty cents back by patching up the cover and selling it to farmers to use a second time. That leaves $2 40 we save by getting the cotton in the seed and ginning it at cost. We get about 2,000 bales in the seed Some farmers haul loose cotton from McLenore's cove, twenty-five miles away. They can afford to haul it that way because they make only one trip to the gin.

I have to buy a good deal more than this, however. We now work up four thousand bales a year in our factory, and the new mill, when it is completed, will use 8,500 bales more. We will manufacture over twelve thousand bales, and our county produces only about eight thousand. Hereafter we will have to draw on Walker and other counties adjoining Chattooga to get a supply.

It would not take many factories like Trion to use the whole crop of the State. Suppose all the cotton were ginned and sold at the factories, what would be the difference?

The usual toll of a twentieth costs a farmer twenty-five pounds of cotton, which, at ten cents a pound, is worth $2 50. The fiftieth which we charge, costs him $1, which leaves a difference of $1.50.

Bagging and ties cost the farmer about a dollar a bale, and sometimes he gets $3 for the thirty pounds which they add to the weight of the cotton. This would leave a profit of $2 a bale if the expense of marketing, with commission and warehouse charges, did not take up the most of it. After the balance is cast and put against the $1 50 saved at the factory, the farmers who take their cotton there are ahead about a dollar a bale. This on the cotton crop amounts to about seven million dollars for the farmer. For the factory the saving is about $2.40 a bale and on the whole crop it would be about $16,800,000. That means that if the cotton were all manufactured in the counties where it was made, the farmers and the factories together would save $33,800,000 a year, which is half the value of the Georgia cotton, crop or seven and a half per cent. of the value of the whole crop

But suppose this were saved, where would the cotton merchants be? Would it be robbing Peter to pay Paul?

Their capital and their energy would very likely be found at work in the new factories, and that which did not go in that direction would probably be at work in some other form of manufacture that would add to the production of the county instead of taking toll from it."

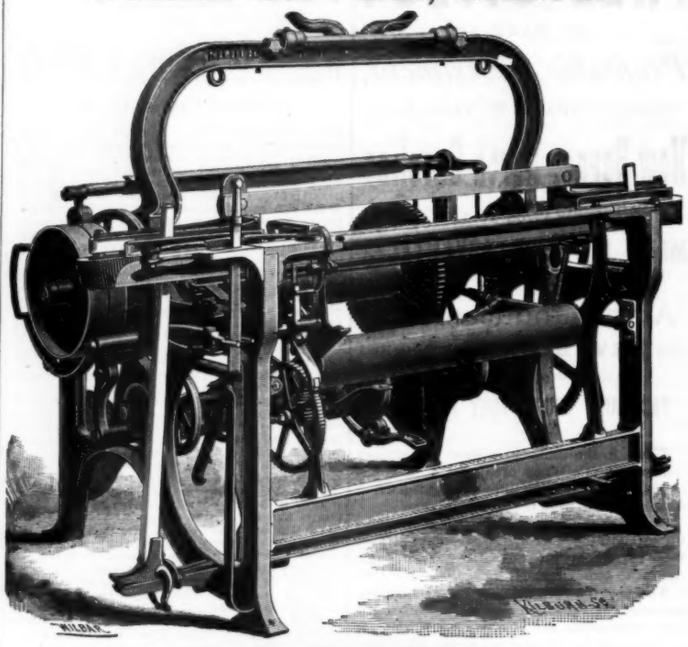
Judge Allgood seems to have worked out fifteen years ago the idea that Edward Atkinson proposed at the cotton exposition of 1881. It seems strange now that a plan which was already at work in North Georgia should have aroused so much objection when publicly suggested as a new thing by a Northern man.

The truth is that our systems of work are being revolutionized so quietly and steadily that the public do not realize the change. The rapid spread of another system of ginning, which takes 1,500 pounds of seed cotton through the gins and delivers the identical cotton with the lint in a bale and the seed separate at the end of fifteen to thirty minutes, is an evidence that we don't know all about handling cotton yet. Suppose, for instance, that this new system of ginning were combined with spindles and the cotton left every county in the form of yarn if not in cloth. In New England the tendency is to specialize in different steps in the manufacture of a product and many factories take the raw material and stops at yarn, just as some mills do in the South, though in a greater variety of yarns. Suppose now yarn spinning were combined with ginning, what would be the result? Perhaps this is not the combination, but the tendency evidently is to some combination that will do a large part of the manufacturing in the neighborhood where the cotton grows. This would employ more people, and the wages paid out in distant manufacturing centers would be paid out here and help to enrich the country.

When this is done twenty three millions would hardly be a suggestion of the wealth added to the cotton States every year.—W G. C. in Atlanta Constitution.

KILBURN, LINCOLN & CO.

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LOOMS

For Cotton and Silk Weaving, Special Patterns for Weaving Cambric, Muslin Sheetings, Tickings Ducks and Print Cloths.

The Seaconnet Mills, Fall River, wove in 300 days of 10 hours each 14,019,000 yards of 64x64 goods on 920 of our "New High Speed Looms," a daily average of 50 7-10 yards per loom per day.

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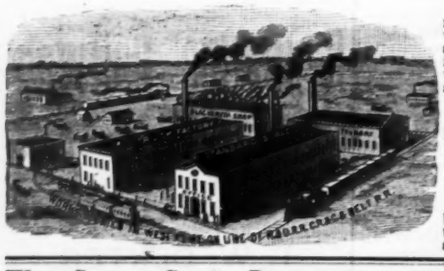
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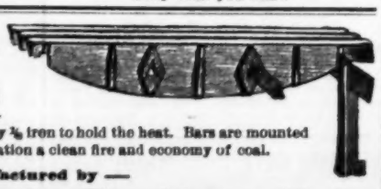
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The Corey Grate Bar.



This grate consists of single bars ⅝ thick at top and ⅛ at bottom, sides being concaved, and gives ⅜ inch air space, with only ⅛ iron to hold the heat. Bars are mounted on vibrating bearings, insuring by its operation a clean fire and economy of coal.

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ROPE, LARIATS, FLY-NETS,

Picker Leather, Stock and Farm Whips, Washers, Hame Straps, Hame Strings, Halters and other Rawhide Goods of all kinds, by Krueger's Patent.

This Belting and Lace Leather is not affected by steam or dampness; has more grip than any other; never becomes hard; is stronger, more durable and the most economical Belting made. Especially adapted for the Southern trade on account of its resistance to moisture. The Rawhide Rope for Round Belting Transmission is SUPERIOR TO ALL OTHERS.

73 & 75 Ohio Street, CHICAGO, ILL.

SOME FACTS ABOUT FLORENCE, ALA.

Florence is in North Alabama, near the Tennessee line, on the Tennessee river, which is navigable here for large steamers. It is on the Memphis & Charleston Railroad, and the Nashville & Florence branch of the Louisville & Nashville Road.

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There are many other places in the South possessing the advantages of a good climate, healthfulness, natural resources and manufacturing capabilities more happily combined and in a higher degree than can be found in any other part of the country. It is believed, however, that at no point in the South, and hence nowhere in America can there be found an aggregate of so many unsurpassed advantages and attractions as exist at Florence.

* * * * * *

Florence can make iron as cheaply as any place in Alabama. It has facilities for the manufacture also of cotton goods equal to those of any other place. Anything that uses wood as a raw material can be made here at as low a cost as anywhere in the South.

Thousands of acres of iron ore of a high grade within a few miles of Florence are owned by Florence companies. Limestone is quarried within the town limits. There is enough of it to last for ages.

Cotton mills would get a large part of their supply from the country around Florence. Cypress creek furnishes water power and mill sites enough to make Florence the Lowell of the South.

North of Florence, and up the Tennessee river, there are large areas of timber, embracing a wide variety of hardwoods—forests that the ax has never touched.

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Besides its industrial possibilities, Florence is a point of great commercial importance, and could be made the center of an enormous mercantile business. It has the advantage of both rail and river transportation and of competing railroads. Certain railroad movements are in progress now that will give it direct communication in every direction and by different lines.

Florence is surrounded by a wide extent of fertile and productive country, as well adapted for farming, stock raising, fruit growing, truck farming, dairying, &c., as any in the world. Further, it has a climate that is delightful the year round. Its health record cannot be surpassed. It has no malaria. In fact, people who live here enjoy a remarkable exemption from ailments of every sort. It has an abundance of the purest water.

* * * * * *

For beauty of location Florence is without a peer. The Tennessee river at this point is as romantic and beautiful as the Hudson. The rolling character of the country, the slopes and hills and alternating valleys furnish a picture to charm an artist's eye. The lovely Cypress creek, a deep and rapid stream emptying into the river just below the town, presents at every turn in its tortuous course a scene of entrancing beauty. The views from some of the higher hills are as fair as the eyes of man ever rested on.

* * * * * *

Florence is making more rapid progress, proportionately, than any other town in America. This is a strong statement but it is true. And its growth is on a solid and permanent basis.

* * * * * *

Florence is not undergoing any wild real estate boom. Its managers are not seeking to advance real estate prices. It is not their plan to get a quick return for the money they have invested, by the rapid sale of lots at unnatural prices. It is their aim to first build up a town, to locate factories and secure a permanent population, when land will have an actual value and sell at prices from which there will not be a subsequent disastrous reaction. At present real estate is much lower in price than in any other town in the South that has made half the progress Florence has made.

* * * * * *

Since the first of September, 1888, over 25 industries have been located at Florence, with an aggregate cash capital exceeding $2,000,000. This remarkable growth is the result of efforts to induce people to simply investigate the attractions of Florence. Investigation and comparison with other places, on the part of any who are looking for a place in the South to locate, will in nearly every case result in the selection of Florence.

* * * * * *

The following are some of the industries in Florence. Some of these are in operation; others are nearly ready for work and others have but recently commenced work on their buildings: A furnace about ready to go into blast, and another partly constructed; a stove factory; a hardware company, with a capital of $300,000 to manufacture fine building hardware, &c.; a wagon factory, with capital of $150,000; an agricultural implement works; a handle factory; a woodenware factory; a sash, door and blind factory; a cedar bucket factory; a pump factory; planing mills; a factory to make wooden butter plates such as grocers use; a flour mill; a cotton mill; a jeans factory; a gingham factory; a woolen mill; a cotton gin; a marble company; a roofing and paint company; a shoe factory; a suspender factory; a compress, packet and ferry company; three building and loan companies; a canning factory; several brick factories; a dummy railroad company, and several other enterprises.

* * * * * *

The aggregate capital of the industrial, mercantile and development enterprises in Florence exceeds $15,000,000.

A year ago the population of Florence was 2,000. It is now more than 8,000.

There are more than 1,100 carpenters at work in Florence and they can't build houses fast enough to keep up with the increase in population. Before the first of January next there will be 15,000 people living here.

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Limited space allows here only the briefest summary of a very few of the more important facts about Florence. For more detailed information write to any of the following companies. Or better still, come down and see for yourself. Investigation is all that Florence asks or needs.

Railroad and Improvement Co. **Lauderdale Manufacturing Co.**

Cotton and Iron Co. **Florence Investment Co.**

SHEFFIELD, ALA.

The Iron Manufacturing Center of the South.

At the head of navigation, on the Tennessee River, Sheffield is the **natural outlet** for the mineral and manufacturing products of Alabama and the neighboring States seeking a water route to points on the Ohio and Mississippi Rivers, and to the Gulf of Mexico, as well as the best **distributing point** over Alabama, Eastern Mississippi and East Tennessee, South Carolina, Georgia and Florida for Northern and Western produce, groceries, provisions, machinery, &c. Three Railroads already completed and in operation, and several others assured. **Principal shops of the Memphis & Charleston Railroad,** in which cars and locomotives are to be built, are under contract to be erected here. These will employ between **four hundred and five hundred mechanics**, and consequently, with their families, will make an increase in population of at least two thousand people. Shops of three other railroads are contracted to be located here, some of them being now under construction.

Five Completed Blast Furnaces,

HAVE A CAPACITY OF 700 TONS PIG IRON PER DAY.

Experts do not hesitate to say that iron can be manufactured more cheaply at Sheffield than at Birmingham, and its river transportation facilities will enable Sheffield iron to reach the principal markets at a saving of from

$2.00 TO $2.50 PER TON.

The quality of the iron produced is pronounced by consumers to be the best from any furnaces in the South.

The following are among the Corporate and Private Enterprises belonging to Sheffield:

1 The Sheffield Land, Iron & Coal Company, capital $1,000,000.
2 The Sheffield & Birmingham Coal, Iron & Railroad Company, capital $7,500,000, owners and operators of three blast furnaces, the Sheffield, the Sheffield & Birmingham Railroad, coke ovens and coal mines near Sheffield.
3 The Sheffield Furnace Company, capital $150,000; assets $500,000.
4 The Lady Ensley Furnace Company, capital $200,000.
5 Enterprise Publishing Company, capital $35,000; publishes daily paper with associated press report and weekly paper.
6 The Electric Light and Gas Fuel Works, $25,000.
7 The Sheffield Ice Company, capital $25,000.
8 The Sheffield Manufacturing Company, $30,000.
9 The Sheffield Contracting Company, $60,000.
10 The Eureka Brick & Lumber Company, $30,000.
11 The Sheffield Furniture Manufactory.
12 The Howard & Busch Brick Company.
13 The Sheffield Bakery and Bottling Works.
14 The Sheffield Mineral Paint Company, $50,000.
15 The Sheffield Agricultural Works, $40,000.
16 The Sandstone Quarry Company.
17 The Sheffield Cotton Compress Company, $60,000.
18 Millar Brothers, Steam Laundry.
19 Water Works, already expended $30,000.
20 Sheffield Street Railway Company, $50,000.
21 Sheffield & Tuscumbia Street Railway Co., $50,000.
22 First National Bank, $100,000
23 Cleveland Hotel Company, $50,000.
24 Sheffield Hotel Company, $120,000.
25 East Sheffield Land Company, $500,000.
26 Hull & Keller's Fern Quarries.
27 Vorhees' Galvanized Iron Cornice Factory.
28 The Sheffield Quarries.
29 Mobile Real Estate Company, $50,000.
30 Sheffield Real Estate Company, $125,000.
31 Sheffield & Mobile Improvement Company, $100,000.
32 Sheffield Stove Works, $50,000.
33 Henderson Milling Company, $100,000.
34 Globe Iron & Brass Works, $10,000.
35 Knowles Knitting Mill, $30,000.
36 Sheffield Tapestry Works, $40,000.
37 Robbins Machine Shop and Foundry, $50,000.
38 Sheffield Cotton Mill, No. 1, $50,000.
39 Owen Pink Mixture Company, $100,000.
40 Bell Telephone & Telegraph Company.
41 Fould's Shoe Factory, $20,000.
42 Enterprise Wood-working Company, $30,000
43 The Sheffield Harness & Saddlery Company, $20,000.
44 Principal Shops of the Sheffield & Birmingham R R.

Aside from the foregoing, the following are in course of construction and may be considered positive: Principal Shops of the Nashville, Florence & Sheffield Division of the Louisville & Nashville Railroad.

Reasonably certain to be secured in the near future are the following, in regard to which negotiations are pending: A Rolling Mill, a Large Machine Shop, a Cotton Mill, a Large Steel Plant.

GOOD WATER.

Free Public Schools and Churches

Drainage Excellent. Health and Climate Unsurpassed.

Splendid Opening for Men of Push and Energy.

No Better Point for Profitable Investment.

NO "OLD FOGY" ELEMENT HERE.

Sites for Manufacturing Enterprises,

AND FOR FREE PUBLIC SCHOOLS AND CHURCHES,

Donated by Sheffield Land, Iron & Coal Company.

Population January 1st, 1887, **700**; August 21st, 1887, by actual count, **2,583.** Increase of population, **300** per cent. in eight months, and only limited by accommodations. Present estimate (August, 1888) fully **3,500.** Four years ago the site of Sheffield was cultivated as corn and cotton plantations, and was without a railroad. Numerous two and three-story brick business houses, and one and two-story dwellings have been, and are being erected. The class of buildings will compare favorably with those in cities of 20,000 inhabitants. Limestone of excellent quality for fluxing iron in unlimited quantities at the furnaces' sites. First-class building stone and brick clay abundant. Rich and extensive deposits of Brown Hematite iron ore within twenty miles, along the lines of two Sheffield railroads, which, by actual results in the furnaces, yield above 50 per cent. metal. Iron of high grade is being made with a pound of coke to a pound of metal—a result never before accomplished with Southern ores and coke. The Sheffield & Birmingham Railroad runs through the heart of the Warrior Coal Fields, which abound in first-class Coking, Steam, Gas and Grate Coal. Timber is abundant and cheap. The Memphis & Charleston Railroad, Sheffield & Birmingham Railroad, and Nashville, Florence and Sheffield branch of the Louisville and Nashville Railroad are now in operation into Sheffield. Surveys of three other railroads have been recently completed to Sheffield, which will soon be the best combined river and railroad transportation center in the South. Every merchant and every established manufacturing enterprise is doing a profitable business. More are needed. For further information address

WM. L. CHAMBERS, Vice-President and Manager,

SHEFFIELD LAND, IRON & COAL COMPANY, - - - SHEFFIELD, ALA.

NEW DECATUR

ALABAMA,

The New Industrial City of the Great Tennessee Valley.

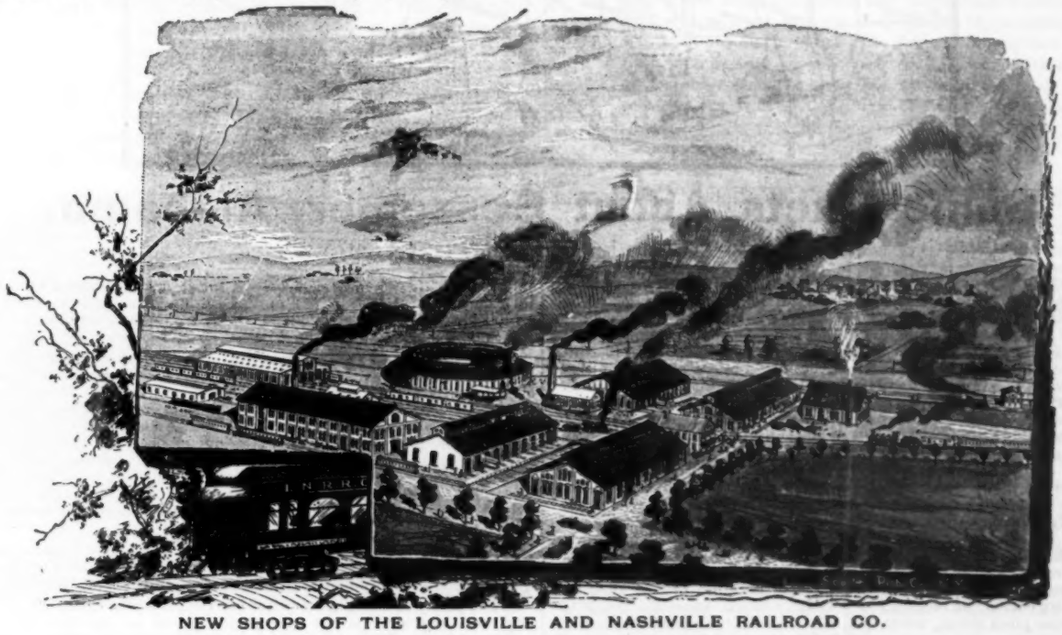
DESCRIPTION OF ENTERPRISES ALREADY ESTABLISHED:

The Louisville and Nashville Railroad Company

have completed the erection of their new central machine shops and car works at Decatur, Ala., at a cost of about $300,000, on a plot of ground of fifty-seven acres donated to the company for the purpose by THE DECATUR LAND, IMPROVEMENT AND FURNACE CO. The buildings comprise a machine shop, blacksmith shop, boiler shop, boiler and engine house to supply power to above buildings, foundry, wheel shop, oil house, round house, freight car shops, dry kiln, planing mill and carpenter shop, boiler and engine house for the wood-working establishments, passenger car shop, paint shop, two-story and basement office building and various smaller structures. All these are brick buildings of the most substantial character.

The plans and designs were made by, and the work carried out under instructions of Mr Middleton, the railway company's superintendent of machinery, who had made the plans for the machine shops of several of the largest railway systems of the Northwest. Only a small force will hereafter be kept at the company's old shops at South Nashville and at Birmingham, for ordinary repairs. The new establishment at New Decatur will be the central shops for all the lines of the system from Memphis Junction, Ky., south to New Orleans. They are intended, primarily, for repairing locomotives and freight and passenger cars. They are, however, equipped to build new locomotives and freight cars, and whenever repair work is slack the hands will be employed on new work. The force at present employed numbers about 300 mechanics, but by the time the establishment is brought into full swing probably double that number will be kept on the company's pay roll; and when the buildings are enlarged, for which provision has been made in the plans and construction, the number will be increased to 1000.

Mr. W. P. Pike, who was formerly in charge of the Nashville shops, has been appointed master mechanic and Mr. M. K. Barnham, lately with the Erie railroad at Salamanca, N. Y., has been appointed general foreman.



NEW SHOPS OF THE LOUISVILLE AND NASHVILLE RAILROAD CO.

DESCRIPTION.

The **MACHINE SHOP** is in a building 125 by 127 feet, which may be enlarged to double its size—that is, 250 by 125, whenever required. There are six pits for placing locomotives for repairs, and in addition to these two more pits may be used for the same purpose in the round house, so that eight locomotives can be taken in hand at the same time. The machinery in this building consists of six lathes, besides a wheel lathe already in position, and four additional lathes to arrive; a driving-wheel press, a rotary turning machine, a cylinder boring machine, by the Potts Machine Company, of Wheeling, W. Va; two slotters, by the Niles Tool Works, of Hamilton, O.; a radial drill, by the Pond Machine Tool Company, of Plainfield, N. J.; a double headed planer and a two-point rotary turning machine, by the same company, besides a variety of smaller machinery. All the machinery is placed on large stone slabs on brick foundation.

The **BLACKSMITH SHOP and BOILER SHOP** are in a building 228 by 92 feet. In the blacksmith's department are 24 forges and two steam hammers, a bolt header and two bolt cutting machines. The draught for the forges will be supplied by a fan, which draught can be cut off as desired from any forge. In the boiler shop is an engine and punch.

The **BOILER and ENGINE** are in a separate house. The engine is a 200 horse power machine, by C. H. Brown, of Fitchburg, Mass., with a 14-foot fly wheel. The boiler is from the Phœnix Iron Works, of Meadville, Pa., and is 30 feet long. There is room in the building for additional boilers, should they be needed. Should the exigencies of the service demand it, the whole of this building can be given up to the blacksmiths, and a separate boiler shop be erected on a vacant plot of ground adjoining. Between the machine and blacksmith shops is a 60-foot wide traverse table of 244 feet travel, which also can be extended whenever the machine shop is enlarged.

The **FOUNDRY** is 84 by 92 feet, and is fitted up with a cupola of 30 tons capacity. Outside the building is a core oven. The brass casting department will, for the present, take up a corner of the foundry, but later on a separate building will be erected for it.

The **ROUND HOUSE** has at present twenty stalls. It is eventually to make a complete circle, when there will be sixty stalls for locomotives. The building is fitted up with a small engine, a drill press, lathe and small shaping machine, to carry on repairs at any time when the large engine may not be working.

There is a separate **WHEEL SHOP**, 82 by 51, for boring and mounting car wheels; it is provided with suitable machinery. The wood-working departments are entirely separate from the machinery and iron departments.

The **PLANING MILL** is in a building 122 by 72 feet and two stories hig The machinery is on the lower floor, the upper floor being used as a carpenter shop. The machinery has not all been erected yet, but includes at present a long planer for car sills, etc., a planer by London, Berry & Orton, which planes four sides simultaneously, also two tenoning machines, a cross graining and grooving machine for heavy work, two boring machines, a mortising and boring machine, and a pony band saw.

The engine and boiler for the wood-working department were moved here from the South Nashville shops. There is a **LUMBER YARD** near the planing mill in which the company propose keeping, on an average, about 5,000,000 feet of lumber of all sorts. Adjoining the lumber yard is a **DRY KILN.**

The **FREIGHT CAR SHOP** is a building 142 by 120, and has accommodation to build or repair eighteen cars at one time. The **PASSENGER CAR SHOP** is 107 by 92 feet, and affords accommodation for five passenger coaches at one time. The **PAINT SHOP** is of the same size as the passenger car shop. Between the two last-named buildings is a 60 foot traverse table of 258 feet travel.

The **OFFICE BUILDING** is 50 by 75 feet, and has two stories and basement. The basement will be used as a store-room for heavy goods. The offices of the master mechanic and the clerical establishment are on the main floor; the upper floor will be the general store room.

Near the machine shop a well of 40 feet diameter is being dug. In the meantime a supply of water is obtained from an artesian well 120 feet deep. There are two tanks on a high staging between the machine shop and the main line, one tank over the other. The lower one is for ordinary use and has a capacity of 47,000 gallons; the upper one contains 8,000 gallons, and is reserved especially for service in case of fi e.

The **OIL HOUSE** is in a separate building. It contains nine large tanks, each 8 feet diameter and 3 feet deep, which are filled from the outside. The oil is drawn, as required, from pipes connecting with each tank in a closed room, where are also the bins for the waste cotton.

For Maps, Pamphlets and other Information about New Decatur, address

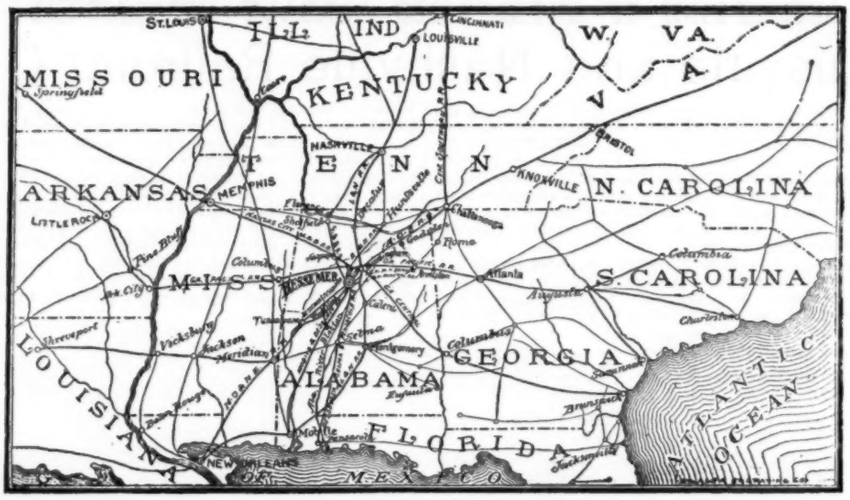
The Decatur Land, Improvement & Furnace Company, New Decatur, Alabama.

The Bessemer Land & Improvement Company,

Office-Nineteenth Street, next to the Bank of Bessemer.

ITS TRANSPORTATION ADVANTAGES.

In an area of four blocks nine lines of railways center: The Queen and Crescent Route; The Louisville & Nashville Min'l Line; The Bessemer & Huntsville R. R.; The Georgia Pacific R. R.; The Kansas City, Memphis & Bessemer R. R.; The Bessemer & Tuscaloosa R. R.; The Bessemer Dummy Line (standard gauge). All of these lines are running to Bessemer. The Bessemer & Huntsville is completed as far as Village Springs, forty miles on the way up Murphree's Valley, with its ultimate terminal point at Huntsville. It is being rapidly extended. The Bessemer & Tuscaloosa is completed to Woodstock, a distance of thirty miles, lacking only eighteen miles of reaching Tuscaloosa. At Woodstock this line connects with the Blocton Coal Mines Railway. The lines of the Bessemer, Selma & Pensacola R. R. and Mobile & Bessemer R. R., now under contract and in process of construction, both center in this area. The Sheffield & Bessemer R. R. is projected to Bessemer. It is now built as far as Jasper, forty miles northwest of Bessemer.



Some Facts About Bessemer, Alabama.

Founded April 12, 1887.

In all the world there is no spot where the economic conditions of iron making are so perfectly and practically combined as at this city of Bessemer, Alabama.

Upon this fact was based the origin of Bessemer; upon this fact depends its present existence and all its future possibilities. Men may come and men may go, but the fact remains that North Alabama is the great storehouse of iron and coal in North America, and Bessemer is its natural center of production and practical, common-sense business men have shown their faith in it by the investment of millions of dollars and the creation of industries that give employment to thousands and furnish the means of comfort and happiness, of education and refinement to many homes.

Situated in the foot hills of the Apalachians in a beautiful valley, well watered and timbered, bordered on the northeast by the Button Mountains, locally known as the Red Mountains, and on the northwest by the Rock Mountains. It is but three miles as the bird flies across the valley from mountain to mountain. On the one side are the great Warrior coal fields, on the other an inexhaustible supply of iron ore, while in the valley between, the Trenton limestone crops vertically. Half way between the Ohio River and the Gulf of Mexico, remote from the rigors of the Northern winter, equally exempt from the heat of the low lands of the Gulf Shore, secure by its mountain elevation from the dreaded scourges of the tropics, with a pure, dry, bracing atmosphere, surrounded by an excellent grazing country where stock can be kept all winter without housing, where cotton and corn can be profitably raised, where the peach, the apple, the pear and the plum thrive, where grape culture on the sunny slopes of the hills is soon to become a special industry. The Northern visitor to this favored locality in February leaves behind the blizzard and dreary expanse of snow-covered country to find the fruit trees in bloom, the ground carpeted with green, the wild flowers in bloom and the birds singing merrily in the woods, while from the depths comes the never-ceasing, inexhaustible tribute of coal and iron to reward the industrious worker.

Scarcely two years have elapsed since a leading capitalist at Birmingham sold his furnace and mining interests and immediately projected a magnificent furnace plant on the site of what is now Bessemer, at the same time developing ore and coal mines. He simply went to the source of supply, for it is well known that Bessemer supplies three-fourths of the iron ore to the Birmingham district and Chattanooga. The establishment of rolling mills and kindred industries immediately followed, and two years ago the city was projected.

The result is perhaps without parallel in history and without a personal visit and inspection will almost stagger belief. In two years there has grown up a bustling little city of nearly five thousand inhabitants and nearly seven hundred substantially built brick and frame houses. Nine lines of railway, four passenger depots, two hotels of architecture, design and finish that would be a credit to Chicago, blocks of brick and marble front stores that would not be out of place in New York; seven churches, a handsome public school building, the most extensive rolling mill in the country; five furnace plants, two in operation, the others under rapid construction, electric light, ice works, planing mills, fire-brick and terra cotta works, two foundries and three brick yards, water works with ample supply of mountain spring water for a large population.

It is no wonder that capital and immigration have been attracted to a scene of such unparalleled development and industry, and it is safe to say that nearly if not quite ten millions of dollars have already been invested at Bessemer.

The policy of the Bessemer Land & Improvement Company, which projected this city, has been to build the city gradually and substantially and upon a firm and enduring basis. With this policy steadily in view the company has never promoted nor has it participated in any speculative movements, but it has extended the broadest encouragement to immigrants and has made substantial inducements to the projectors of new enterprises.

The result is already apparent in new enterprises in operation which give employment to skilled workmen, and so lay the foundation of new homes. With the attention of the people in the Northern States of the Union directed to new fields of industry and the founding of new homes in which to work out prosperous careers, we extend an invitation to all to visit us and personally examine these advantages.



CHARLESTON BLOCK, 300 FEET FRONTAGE, 2D. AVE., BET. 18TH AND 19TH STREETS.

For particular information as to price of lots, manufacturing sites and inducements to establishing plants in this unrivalled locality, address

H. M. McNUTT, Secretary.

Thos. Courtenay

President.

Anniston

THE CENTER OF

Iron and Cotton Industry

AND MINERAL WEALTH.

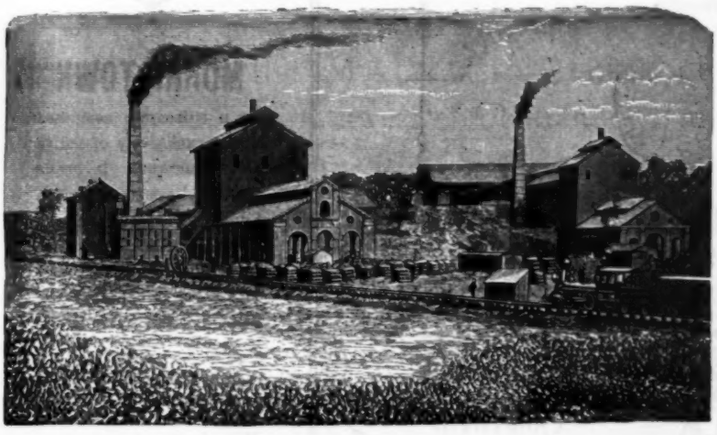
"The Model City of the South."

IT IS

The Profits of Labor only that can add to the wealth and prosperity of a nation or community. It is this only that can make business successful and profitable, sustain and add to the value of real estate.

WHERE

Nature's resources are greatest, where nature's capital in rich agricultural lands, and where iron, coal and other useful minerals are most abundant, most accessible and of superior quality for all purposes, there will capital find its safest investment, largest returns and labor reap its richest reward. It is to the Anniston District where the best professional mining engineers and experts of the United States declare the great center of the iron industry of the South will drift, where its manufacture will be most permanent and profitable, and where ores in the greatest abundance and accessibility exist, and where they will be most easily mined, that this applies.



WOODSTOCK FURNACES—ANNISTON.

The Development of the Past Fifteen Years

Confirms all this, and every year convinces the experts of the correctness of their judgment. It is no longer opinion based on scientific and practical education; it is a fact that is clearly and successfully demonstrated, so that the visitor to the Anniston District can see at every step. The four iron furnaces that have been so long and successfully operated, and the new plant now being erected, and rapidly approaching completion, which will be capable of producing one hundred thousand tons of pig iron a year, demonstrate that

NOWHERE ELSE IN THE SOUTH

Has the iron industry been so profitable and so successful, or been established on so permanent a basis, and of no district is this so universally conceded by all, while nowhere else have arrangements been perfected and already established on so complete a scale to work the crude iron into higher branches of manufacture to increase its value, and to bring into the district the profits of skilled labor. **THE GREAT CAR WHEEL WORKS OF NOBLE BROS. & CO.**, their rolling mill and steam forge and machine shops, and the Alabama Car Works, have been absorbed by the

UNITED STATES ROLLING STOCK COMPANY,

With a capital of **$4,000,000**, for the purpose of adding to and enlarging the entire plant to build **TWENTY CARS A DAY.** Everything that goes into the creation of a car, except the tin for the roof and the wire nails, will be created from Anniston's crude material by her labor and skill. Fifty tons of wheel iron will be made into car wheels daily, twenty tons into car axles, fifty tons of pig iron into car and other castings, and fifty tons into bar iron and bolts, making nearly ten thousand dollars per day added to the wealth of the country by profitable labor converting nature's capital to the use of man. This company have a capital of $4,000,000, and their Anniston works will represent a cash outlay of $1,000,000. One thousand skilled mechanics will be employed as soon as the great enlargements under way can be completed.

THE STEEL BLOOMARY

Consumes and increases the value of twenty tons of pig iron per day, while the Pipe Foundry converts to the use of man **TWO HUNDRED TONS OF PIG IRON PER DAY** in one of the largest and best planned and most convenient labor-saving works on this continent. *The Foundry of Murray & Stevenson, Engine and Machine Works of Pinder & Co., and Boiler and Sheet Iron Works of J. & D. Nobis*, all add to the consumption of crude material by the creation of finished work.

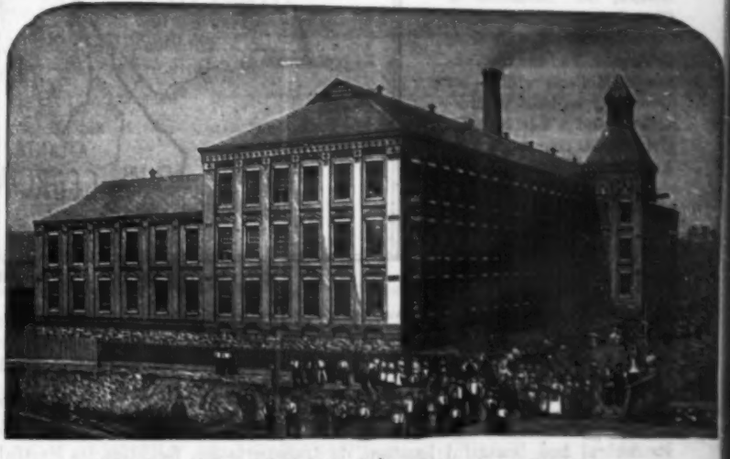
NOR IS IT TO IRON ALONE

That Anniston relies for increase of wealth and population. The Cotton Factory, with eleven thousand seven hundred spindles and three hundred and seventy-five looms, employing over three hundred and fifty operatives, adds greater value to the products of agriculture by converting six thousand bales of cotton into cotton cloth. The immense ninety-inch Morse Cotton Compress, with its brick warehouses, is fast making Anniston a cotton market and commercial center, and aiding its wholesale and retail merchants to extend and hold the trade of the country tributary to Anniston that its system of railroads has opened to them. The Georgia Pacific, the East Tennessee, Virginia & Georgia Railroad systems,

Give Direct Communication and Through Rates

To all parts of the country, while the Anniston & Atlantic Railroad, built by Anniston capital to open up new agricultural and mineral resources, gives Anniston, by connection with the Central of Georgia system, communication with the Atlantic sea coast and the new Anniston & Cincinnati Railroad, built and owned by Anniston citizens, opens up new resources and connections, and a shorter line with the great Northwest.

The proposed extension of the Anniston & Atlantic Railroad to Blocton will give another and shorter line to the great Cahaba Mines, producing the very best coal for domestic and manufacturing purposes in the South. Forty thousand acres of these coal lands, upon which a million and a half dollars have been lately spent in opening new mines and building several hundred coke ovens, **ALL OWNED AND CONTROLLED BY ANNISTON CAPITAL**, and developed to mine and manufacture three thousand tons of coal and coke per day, secures to Anniston for generations to come a full and certain supply of cheap fuel for all her industries, operated where a rich agricultural country can feed a manufacturing and commercial people, and where the



ALABAMA MANUFACTURING COMPANY'S COTTON MILL—ANNISTON.

Best, Healthiest and Most Invigorating Climate in the World,

With mountain air and pure water, and an elevation of nine hundred feet above tide water, insures the health and comfort of the workman and his family; where health and comfort stimulate and lighten labor, and secure to it and its industries the reward due to both. It is these advantages which have been given by nature that enabled Anniston's citizens to create her past and present prosperity, and which secure her future. It is that they may participate in and avail themselves of these advantages that Anniston invites **NEW CAPITAL AND TALENT AND ENERGY** from all sections. We invite all to come and see, and on the spot to judge for themselves of Anniston's great resources and possibilities. The comfort and quiet of the famous Anniston Inn will make a visit to our city a treat and pleasure. Any information, attention and courtesy will be given and shown by addressing or applying to the

ANNISTON CITY LAND CO., Anniston, Ala.

Morristown, Tenn.

The Plateau City of the Great Valley of East Tennessee

is beautifully located on a plateau of Bay's Mountain, about equi-distant from the Cumberland Mountains which bound East Tennessee on the northwest, and the Alleghany Mountains which bound it on the southeast, and is 300 feet above Holston River, which washes the north base of the plateau three miles from the city. Its mean elevation above sea level is about 1,350 feet, while the hills and mountains immediately surrounding it rise to an altitude of 1,935 feet, affording views of surprising extent and grandeur, and at the same time so modifying the temperature that the thermometer rarely registers higher than 90° in summer or lower than 10° in winter. *Its drainage is admirable, and malaria is unknown. It has nearly trebled its population since* 1880, *having now about* 4,000 *inhabitants.* It is the commercial and business center of the richest and most extensive agricultural district in the State, where all the cereals and all the grasses and tobacco are grown to perfection, and where fruits and berries abound. It has hundreds of thousands of acres of unculled forests accessible to it, abounding in Poplar, Pine, Hemlock, six varieties of Oak, Chestnut, Hickory, Cedar, Maple, Birch, Beech, Sycamore, Gum, Locust, Laurel, Buckeye, Mulberry, Ash, Cherry and Walnut. *The Celebrated East Tennessee Marble* underlies a part of the city, and it is surrounded with rich deposits of Iron Ore, Manganese Ore, Zinc Ore and Lead Ore. It has been said by one who has made a study of the subject, that within a radius of 50 miles around Morristown *every variety of iron ore in the United States can be duplicated, and a coke can be made equal to Connellsville coke.* We claim without hesitation that **Morristown has in its immediate vicinity richer mineral ores, and a greater variety of them, than any city on the Continent.**

MORRISTOWN

has Railroad Facilities equal to any city between Lynchburg and Chattanooga, and they will be speedily increased by the completion of the Carolina, Cumberland Gap & Chicago Railway, making the shortest possible railway route between the great cities on the Ohio River, Cincinnati and Louisville, and the seaboard cities, Charleston, Port Royal and Savannah. Besides, the Baltimore & Ohio Railway will probably extend a branch to it from Lexington, Va., and the Tennessee Midland will in all probability be built to Morristown, and a line be built giving direct connection with Atlanta.



MAP SHOWING RELATION OF MORRISTOWN TO THE COUNTRY AT LARGE.

MORRISTOWN

has a citizenship composed almost exclusively of native born Americans. It boasts a splendid system of Graded Schools, Five Commodious Brick Churches, the finest Courthouse in Upper East Tennessee, an Opera House that will seat 600 people, two Solid Well Managed Banks, a flourishing Building and Loan Association, two of the Largest Commercial Flouring Mills in the South, Stove Works, an Agricultural Implement Factory, two Woodworking Factories, a Tobacco Factory, a Carriage and Wagon Factory, and many industries of lesser note.

It is lighted with electricity, and has water works under contract, and is now inaugurating a system of street railways. Its climatic advantages, its unsurpassed record for healthfulness, its abundance of pure water, its central and beautiful location, its transportation facilities, its fruitful agricultural surroundings, its contiguity to rich and exhaustless fields of iron, manganese, zinc and lead ores, marble, coal and timber, mark it as a place destined to be the commercial, manufacturing and railway emporium of Upper East Tennessee, Western North Carolina and Southeastern Kentucky.

To expedite this destiny the city authorities have wisely *exempted from taxation for ten years all manufacturing establishments* that will give employment to fifteen or more persons, and the county authorities have done the like, so that manufacturing establishments will be exempt from all taxation for ten years, except the merely nominal tax for State purposes. There has been no "boom" or inflation of prices at Morristown, and, as it possesses within itself and contiguous to it almost every element of wealth, it now presents the most inviting field for investment of any city in the South.

Persons who may desire fuller information can obtain it by calling on or addressing

MONTVUE LAND COMPANY

POSTOFFICE BUILDING,——MORRISTOWN, TENNESSEE.

FORT PAYNE, Alabama.

★ COME TO ★

The NEW ENGLAND CITY of the South.

Climate Unsurpassed. Abundance of Pure Water. Drainage Excellent.

No Better Point in the Union

For Safe and Profitable Investment.

Situated on the MAIN LINE of the QUEEN & CRESCENT ROUTE, fifty-one miles Southwest of Chattanooga, and ninety-one miles North of Birmingham. Elevation is from 895 to 1,600 ft above the sea, and above fever districts.

DeKalb County is entirely free from debt; taxes light.

Most liberal encouragement given to industries of every kind.

Iron Furnace and Rolling Mill will be constructed immediately, and other industries of various kinds are under contract.

Correspondence solicited from those who contemplate coming into the South to establish any kind of manufactories.

The different industries will employ at least two thousand skilled workmen, which will secure a population of over ten thousand, independent of the many industries contemplated.

Iron of the best quality can be manufactured at as low cost per ton as in any other locality in the South.

Coal and iron are being developed rapidly of a superior quality.

Fine timber abundant and wood-working machinery of every kind can be profitably employed at this point.

The Company is prepared to give every reasonable encouragement to manufacturers who will locate at this point.

☞Correspondence solicited.

CAPITAL $5,000,000.

OFFICERS.

President,	COL. J. W. SPAULDING
First Vice-President,	HON. D. H. GOODELL
Second Vice-President,	HON. HENRY B. PEIRCE
Secretary,	C. L. T. STEDMAN
Treasurer,	F. H. TOBEY
Manager,	C. O. GODFREY

BOARD OF DIRECTORS.

HON. D. H. GOODELL, of Goodell Mfg. Co., Antrim, N. H.
HON. HENRY B. PEIRCE, Secretary of State of Mass.
GEN'L SELDEN CONNOR, Ex. Gov. of Maine, Pres. Northern Banking Co., Portland, Maine.
COL. J. W. SPAULDING, Ft. Payne, formerly of Portland, Me.
HON. F. G. JILLSON, Providence, R. I.
HORATIO ADAMS, Boston, Massachusetts.
W. J. CAMERON, Pres. First Nat'l Bank, Birmingham, Ala.
COL. JOHN B. BODDIE, Birmingham, Ala.
W. P. RICE, Pres. Union Investment Company of Kansas City, resides Fort Payne, Ala.

FORT PAYNE COAL & IRON COMPANY, Fort Payne, Ala.

200,000,000 TONS OF BROWN IRON ORE

IN SIGHT AT BLUFFTON,

HIGH, HEALTHY AND HONEST.

GOOD PEOPLE AND GOOD WATER.

Cherokee County, Ala.

It is impossible to describe by words the enormous quantity of iron ore that is in sight on the land of this company. Said a prominent railroad man of the South: "I could not believe your statement as to the quantity, (200,000,000 tons in sight), but now that I have seen your ore deposits, I wonder how you put so low an estimate on them."

Prof. Robinson, of Bowdoin College, Brunswick, Maine, says: "I found at Bluffton iron ore in abundance, partly in solid cliff masses containing hundreds of thousands of tons, and partly in the form of gravel and small boulders lying in great banks similar in appearance to the gravel banks of New England. Whether there was as much of the gravel as of the bluff ore I could hardly judge, but it was very clear that the quantities of both were simply enormous."

G. S. Patterson, mining engineer, of Anniston, Ala., reports: "The amount of ore in sight was certainly beyond my expectation, though I was prepared to find a large deposit. The Bluff, as it is called, is a solid mass of ore on the side of a mountain, easily approachable, and can be mined cheaper than at any point in Alabama or Georgia, with which I am familiar."

Mr. Wm. H. Edmonds, of the Manufacturers' Record, says: "As to the quantity of ore here, I don't suppose that all the furnaces in Alabama could use it up in a lifetime."—See Manufacturers' Record May 18, 1889, article entitled "BILL ARP AND BLUFFTON."

Ore can be delivered at furnaces built here at a cost not exceeding 50 cents per ton.

With high grade ores, analyzing over 50 per cent. metallic iron, delivered at the furnace at the above-named price, is there any possibility of such a place as Bluffton not being able to produce iron at figures which will yield a profit despite the dullest of dull times?

Prof. J. H. Pratt, of Birmingham, Ala., reports on samples selected from our property by Mr. Edmonds and Mr. G. S. Patterson as follows:

The sample of brown iron ore, marked "Bluff Ore," contains—		The sample marked "Gravel Ore" contains—	
Metallic iron,	52.37 per cent.	Metallic iron,	53.23 per cent.
Phosphorus,	0.782 "	Phosphorus,	0.931 "
Silica,	14.60 "	Silica,	6.25 "
Water combined,	8.10 "	Water combined,	10.20 "
Moisture at 100° C	2.50 "	Moisture at 100° C	1.68 "

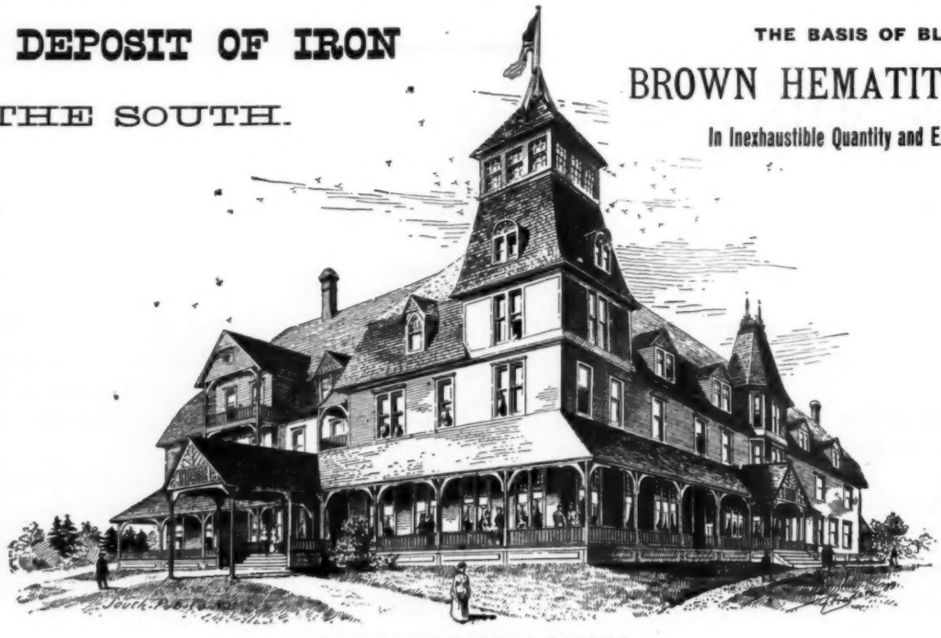
LARGEST DEPOSIT OF IRON IN THE SOUTH.

THE BASIS OF BLUFFTON:

BROWN HEMATITE IRON ORE

In Inexhaustible Quantity and Excellent Quality.

Ore can be delivered at furnaces built here at a cost not exceeding 50 cents per ton.



THE SIGNAL—NOW OPEN AT BLUFFTON.

Located on the Selma Division of the East Tennessee, Virginia & Georgia Railway, midway between Rome and Anniston, and only two miles and three-fourths from the East & West Railroad, of Alabama.

A Dividend-Paying Stock Below Par. 8,000 Shares of Stock at $14 Per Share—Par Value $25.

PRICE OF STOCK:

The directors of the Bluffton Land, Ore & Furnace Co. have decided to offer to investors 8,000 shares ($112,000) of its treasury stock for the purpose of building a 100 TON DAILY CAPACITY COKE IRON FURNACE at Bluffton, and for such other improvements and purchase of other unimproved real estate as may be considered by the directors for the best interests of the stockholders. This stock is now paying six per cent. from ore shipments, and for the past three weeks we have netted over $20,000 from the sale of our city property—a sale which is larger by 20 per cent. than our estimate.

Only 8,000 shares will be sold at this price, $14.00. As soon as this block is sold, which will probably be consummated inside of thirty days, the price will be advanced to $20.00 per share. The balance left in the Treasury after this sale will probably not be offered less than par, if at all. Judging from present indications, it will not be necessary to sell more than the present block, as receipts from ore shipments and sales of real estate will be ample to complete the furnace and make all improvements now contemplated.

Such a safe investment has never been offered—a dividend paying stock for less than par. Absolutely safe—cannot be assessed. Fully paid up in the organization. Work will be commenced on the furnace as soon as $30,000 is subscribed on this sale. Persons desiring to purchase larger blocks than their present means will permit, can make a payment of one-half of the amount desired, the balance to be paid in thirty days. Blanks for subscription will be furnished from this office direct.

Orders will be filled in rotation for 1, 5, 10, 50, 100 or 1,000 shares till the entire block is sold. Positively only 8,000 shares will be sold at the above-named price. Subscriptions can be made direct to this office, or to any of the company's agents here or in New York, Chicago, Boston and Bangor, Maine. Remittances can be made by New York draft, express money order, or by currency by registered letter. We can furnish the highest testimonials in regard to this property from business men and experts who have visited it from all parts of the Union.

SEND FOR PROSPECTUS. ADDRESS

Bluffton Land, Ore & Furnace Company, Bluffton, Ala.

CONSTRUCTION DEPARTMENT.

WE PUBLISH, every week, a list of every new factory, of whatever kind, projected anywhere in the South; every railroad undertaken, and every mining company organized. This information is always fresh, and, by enabling manufacturers to correspond with the projectors of such enterprises before their supplies of machinery have been purchased, is of great value. Manufacturers will find it to their interest to read this department carefully each week.

*Means machinery is wanted, particulars of which will be found in "Machinery Wanted" columns.

☞ In correspondence relating to matters reported in this paper, it will be a favor if it is stated that the information was gained from the MANUFACTURERS' RECORD.

ALABAMA.

Andalusia—Saw Mill, &c.—J. E. Hughes contemplates erecting a saw mill and cotton gin.*

Andalusia—Cotton Mill.—J. E. Hughes will build a cotton mill.*

Anniston—Dummy Railroad.—The Minnelula Lake & Oxford Dummy Line Co., previously mentioned, will extend their road to Tenth street.

Anniston—Planing Mill.—Mr. Simmons, of Georgia, is prospecting with a view to locating a planing mill in Anniston.

Anniston—Hardware Factory.—George Geer, lately mentioned as prospecting with a view to establishing a hardware factory, has formed a partnership with E. M. Lewis. Machinery to cost $5,000 will be, it is stated, placed in the latter's nail and machine works.

Anniston — Sewerage System. — R. P. Huger, mayor, will receive proposals until July 15 for the construction of 16,200 feet of 24 inch sewer, 5,664 feet 20-inch sewer, and 3 742 feet of 15-inch sewer for the sewerage system reported previously. All material required is to be furnished by the contractor with exception of pipe.

Anniston—Oil Mill and Bagging Factory. The United Cotton-seed Oil Co., of Philadelphia, Pa., previously reported as to erect a cotton-seed oil mill, offer to build a 45-ton mill to cost about $50,000 if local parties will subscribe for $25,000 of stock. They are thinking of starting a cotton-bagging factory in connection with the oil mill.

Attalla—Spoke and Hub Factory.—J. W. Penn will start a factory for the manufacture of spokes, hubs, felloes, etc.*

Barton—Saw Mill.—A saw mill will be built and machinery has been ordered.

Bangor — Railroad. — The Louisville & Nashville Railroad Co. (office, Louisville, Ky) will build the railroad from Bangor to Bountsville, 12 miles, lately reported.

Bessemer—Coal Mines.—The company previously reported as formed by George L. Morris, of Birmingham, and A. E. Bamberger, of New York, are opening mines, the capacity of which will probably be 1,000 tons daily. They have, it is said, 40,000 acres of coal lands.

Birmingham—Dummy Line.—Capitalists have offered to take two-thirds of the stock in the $50,000 company lately mentioned as being organized by J. C. Edmundson and others to build a new dummy line to East Lake.

Birmingham—Railroads.—It is reported that the Birmingham Mineral Railroad Co. will build several new branches.

Birmingham—Iron Mines.—Iron ore low in phosphorus has been found near Birmingham and several mines will soon be opened.

Brierfield — Railroad. — The Brierfield, Blocton & Birmingham Railroad Co., lately reported as to build a road from Brierfield to Birmingham with a branch to Blocton, 8 miles, have let contract for 5 miles of road to John E. Lacy, of Birmingham. He is at work. The road will be an extension of the Selma division of the East Tennessee, Virginia & Georgia Railroad.

Columbia—Artesian Well.—The Central Railroad & Banking Co. (office, Savannah, Ga.) will probably contract with Mr. Herrington for the sinking of an artesian well.

Cullman—Coal Mines and Railroad.—The coal lands of C. Hill and others, about 10 miles from Cullman, have been purchased by capitalists, who will, it is stated, develop them and build a railroad from Cullman to the mines.

Decatur—Foundry, &c.—Long & Jervis are adding $2,000 of new machinery to their foundry and machine shop.

Florence — Oil Mill, &c. — The State Farmers' Alliance will soon begin work on their cotton-seed oil mill and fertilizer factory, previously reported. A bagging factory is reported to be built later. J. J. Critentun is their local representative.

Florence — Bridge. — Barron, Peace & Garden, of Marseilles, Ill., have the contract for the piers for the Memphis & Charleston Railroad bridge across the Tennessee river, reported previously. They will quarry stone near the bridge.

Fort Payne—Iron Furnace.—The Fort Payne Furnace Co., previously reported as to build a charcoal iron furnace, have let contract for plant complete to Alexander K. Rarig & Co., of Columbus, O. Capacity will be 80 tons.*

Fort Payne—Railroad.—The Fort Payne Coal & Iron Co. have secured the charter of the Guntersville Railroad Co. and have organized the Guntersville, Fort Payne & Chattooga Valley Railroad Co. to build a railroad from Guntersville to Fort Payne. Work will probably soon be started.

Gadsden—Railroad.—R. O. Randall and others, lately mentioned as organizing company to build railroad, have incorporated the Chattanooga, Gadsden & Birmingham Air Line Railroad Co., capital stock $500,000, to build a road from Leeds via Gadsden to Georgia State line. Road is to be continued to Chattanooga, Tenn.

Mobile—Cotton Factory.—A $100,000 stock company is being organized on the co-operative plan to establish a cotton factory.

Montgomery—Dummy Line.—W. F. Vandiver, F. M. Billings and W. F. Joseph, previously reported as to build a dummy line around the city, have organized the Montgomery Belt Line Railway Co. S. G. Pruitt has contracted for grading and laying of timbers. Work has been commenced.

Montgomery—Cotton Mill.—The Adams Cotton Mills have, it is said, issued $70,000 of bonds for the enlargement of their mill.

Opelika—Knitting Mill.—The Opelika Knitting Co. have purchased a site on which to build their knitting factory reported last week.

Oxmoor—Iron Furnace.—The Eureka Co. are repairing their No. 1 iron furnace.

Pearce Mills — Planing Mill. — James Pearce will start a planing mill and has not yet purchased machinery.

Selma—Factory.—A large factory is reported to be located soon.

Talladega — Tannery.— The Talladega Tanning Co. has been organized to start a tannery by J. A. Huey, D. W. Rogers, S. J. Bowie and others. The capital stock is $10,000.*

Tallassee—Saw and Planing Mill, &c.—Sistrunk & Jordon will erect a saw mill and contemplate building a planing mill and dry-kiln.

Troy—Dummy Railroad.—The Troy Land & Immigration Co. expect to build the street railroad, previously mentioned, as soon as the Alabama Midland Railroad is completed. It will be a dummy line.

Troy—Railroad Shops.—The Alabama Midland Railroad Co. have decided to locate their machine shops in Troy.

Troy—Shoe Factory.—The Troy Shoe Manufacturing Co. are selecting a site for their shoe factory, previously reported. Building is reported as to be 50x150 feet.

Tuscumbia—Electric-light Plant.—The Tuscumbia Light & Water Co. will put in a 100 horse-power engine and add machinery for incandescent lighting. Capacity will be 600 lights.

ARKANSAS.

Arkansas City—Railroad.—The company who will build a railroad from Vidalia, La., to Arkansas City, have signed contract to locate their machine shops at Arkansas City. The Kentucky & Arkansas Land & Improvement Co. can give information.

Arkansas City — Railroad. — A railroad will be built from Arkansas City to Pendleton. The Kentucky & Arkansas Land & Industrial Co. can give particulars.

Arkansas City—Road.—$6,000 is being raised to drain Fulton bayou and Boggy lake and build a road to Trappe.

Batesville—Charcoal and Alcohol Works. The Batesville Charcoal & Chemical Co., capital stock $50,000, has been organized to build works for the manufacture of charcoal, alcohol, acetate of lime, &c., from wood. J. C. Yancey is president and C. T. Rosenthal, vice-president.

Bay—Tram Road.—Townley Bros., lately mentioned as building saw and shingle mill, are building 3 miles of tram road.

Benton—Flour Mill.—A company has been formed to build a flour mill and will soon start work.

Benton—Mine.—A steam pump will be erected at the Rabbit Foot mine.

Benton—Soapstone Quarry.—Col. J. W. Wallace will probably develop a soapstone quarry 8 miles from Benton.

Bentonville—Planing Mill, &c.—A planing mill and furniture factory has been started recently.

Brinkley—Railroad—The Brinkley & Helena Railroad Co. will extend their road to Indian bay.

Brinkley—Iron Foundry.—An iron foundry is in course of erection on Cypress street.

Charleston—Ginnery.—W. L. Kellum will put new machinery in his cotton gin.

Conway—Canning Factory.—J. M. Allender is considering the establishing of a canning factory.

Eureka Springs—Water works.—Proposals for building water works and a sewerage system are wanted. Address J. T. Spring.

Fort Smith—Water Works.—The Fort Smith Water Co. will lay about 14 miles of additional pipe this year.

Hot Springs—Steam Laundry.—Sithen & Dow are building a steam laundry.

Independence County—Mining.—A Chicago company have lately commenced developing mines and are purchasing considerable new machinery. R. M. Ring is interested.

Kearney—Saw and Planing Mill.—The Kearney Lumber Co. will rebuild their saw and planing mill reported in this issue as burned.

Little Rock—Chair Factory.—The Little Rock Chair Co. have put additional machinery in their chair factory.

Little Rock—Publishing.—The Temperance Publishing Co. has been organized to publish the Temperance Advocate by M. Homer Smythe and others.

Little Rock—Granite Quarries.—The Arkansas Granite Co. have been awarded the contract to furnish Louisville, Ky., with 30,000 tons of granite and will treble their present output. Contract amounts to over $210,000.

Little Rock—Publishing.—J. M. Johnson and M. A. Hull will publish a daily paper to be called the Register.

Malvern—Tram Road.—The Ouichita Falls Lumber Co. are constructing a tram road.

Marion County—Mines.—A company is being formed at Memphis, Tenn., to develop the mines of J. A. Hartman and John Reid, of Memphis, and others.

Morrillton—Planing Mill.—H. M. Barglebaugh is building a planing mill at Morrillton and not at Conway as lately stated. Has purchased most of his machinery.

Piggott—Grist Mill.—William Gay contemplates erecting a grist mill.

Pine Bluff—Fibre Factory.—Efforts are being made to have located at Pine Bluff the branch factory which the Sulphite Fibre & Paper Co., of Detroit, Mich., contemplate building at cost of $125,000.

Pine Bluff—Planing Mill.—D. B. Riggan is moving his planing mill to another location.

Pine Bluff—Gas Works—The plant and franchise of the Southwestern Light & Improvement Co. have been purchased, it is reported, by the Pine Bluff Water & Light Co. for $100,000.

Prairie Grove—Coal Mine—Peter Graham and associates have opened a coal mine.

Prescott—Cotton Factory.—Efforts are being made to organize a $50,000 stock company to build a cotton factory.

Stuttgart—Railroad.—The Stuttgart & Arkansas River Railroad Co. have commenced on their railroad previously reported. It will extend from Stuttgart to Arkansas Post, 45 miles.

Walnut Ridge—Street Railway.—The Walnut Ridge & Hoxie Street Car Co. has been incorporated with W. M. Ponders, president, to build a street car line from Walnut Ridge to Hoxie. The capital stock is $5 000

FLORIDA.

Campbell—Hoop Factory.—A. S. Campbell is thinking of starting a factory for the manufacture of barrel hoops.

Citra—Irrigation.—Borland Bros., reported last week as to erect machinery for irrigating their orange grove, will pipe 20 acres at first as an experiment. Shape is 1,320x660 feet. 3 lengths of 3-inch pipe will be laid the long way of grove, with 2-inch openings every 200 feet, and a 5-inch pipe across.*

Citra—Irrigation.—James A. Harris will not erect plant for irrigating his orange grove as stated last week.

Daytona—Ice Factory.—D. D. Rogers is thinking of moving his ice factory from Daytona.

De Funiak—Cigar Factory.—F. A. Gonzales and Mr. Valdes will increase capacity of their cigar factory.

Kissimmee—Sugar Mill.—R. E. Rose is reported as putting the machinery in the sugar mill mentioned previously as to be built by him.

Matanzas—Oyster Culture &c.—A company will cultivate oyster beds and lay off a town site on the Matanzas river.

Madison—Railroad.—L. B. Plumber, of Jacksonville, W. S. Jordan, H. J. McCall, Jr., and others have organized the Tobacco Belt Railroad Co. to build a railroad from Belleville to the Gulf of Mexico via Madison, about 90 miles.

Orlando — Railroad. — The Orlando & Winter Park Railroad Co. have offered to build the railroad, previously reported, to Lake Jessup if the citizens grade and tie the line.

Ormond—Artesian Wells, &c —P. J. Constantine has purchased the Hernandez estate, and will lay out streets and lots and sinks artesian wells.

Orlando — Railroad. — The Orlando & Indian River Railroad Co. has been incorporated by M. R. Marks, E. K. Foster, E. R. Gunley and others to build a railroad from Orlando to Lake Worth via Narcoossee and Melbourne.

Palatka—Railroad.—The Palatka & Lake Shore Railway Co. has been chartered. John H. Darve is probably interested.

Pensacola—Ice Factory.—The Stratton Ice Co. will double the capacity of their ice factory.

Pensacola.—Railroad.—The Mexican Gulf, Pacific & Puget Sound Railroad Co., previously reported as incorporated to build a railroad 45 miles long and the Pensacola & Memphis Terminal Railroad Co., previously reported as incorporated to build a railroad 30 miles long, have organized. S. N. Van Praag is president and A. G. Moreno, secretary of both companies.

Sanford—Novelty Works.—E. H. Herndon is enlarging his novelty works.

St. Augustine—Bridge.—The St. Augustine & North Beach Railroad Co. have let contract for the bridge over the St. Sebastian river, previously reported, to Van Eberstein, Cooper & Co. The bridge will be 1,500 feet long.

Tampa—Box Factory.—A. A. Wood, of Coldwater, Mich , will establish the cigar box factory previously reported. It is to be two-stories 30x85 feet with a daily capacity of 4,000 boxes.

Tampa —Planing Mill.—Dorsey & Whaley are erecting a planing mill.

Tampa—Canning Factory.—A fish canning factory is to be started. The Susquehanna Fertilizer Co., of Baltimore, Md., are said to be interested.

Tampa—Electric-light Plant.—A company is being organized to erect an electric-light plant.

GEORGIA.

Americus — Fertilizer Factory. — The Americus Guano Co. have increased their capital stock from $50,000 to $100,000, probably to enlarge works.

Athens.—A land and improvement company will be organized.

Athens—Flour Mill.—A company is being organized to build a flour mill.

Atlanta—Show-case Factory.—The Atlanta Show-case Co. have established a show-case factory lately.

Atlanta—Sewing Machine Factory.—The Brosius Sewing Machine Motor Co., lately mentioned as purchasing machinery for their factory, will shortly begin the erection of a two-story factory building 40x400 feet to cost about $15,000; also engine-house, &c.

Augusta—Bridge Piers.—T. O. Brown has received the contract from the city to build 7 piers and an abutment for the bridge over the Savannah river at $11,347.

Augusta—Cotton Factory.—Stewart Phinizy, president of the Augusta Cotton Factory, recommends in his annual report the sale of $50,000 of bonds to put in new machinery.

Augusta—Electric Railroad.—A syndicate has obtained control of the Augusta Street Railroad, and will operate it by electricity, as mentioned in last issue.

Barnesville—Oil Mill.—The Barnesville Oil Mill Co. will increase the capacity of their cotton-seed oil mill.

Cartersville—Bottling Works.—Jones & Miller, reported last week as adding bottling works to ice factory, expect to enlarge same.

Cedartown—Ore Washer.—W. L. Hickman & Co. reported lately as to develop a manganese mine will erect an ore washer.*

Cedartown—Iron Mines.—The Georgia & Alabama Consolidated Mining Co. has been organized with S. E. Noble, of Anniston, Ala., president, and J. K. Barton, vice-president and general manager. They control 16 iron ore properties which will be developed.

Cole City—Coal Mines.—The Georgia Mining, Manufacturing & Investment Co. are opening new coal mines.

Columbus—Barrel Factory.—The Columbus Barrel Manufacturing Co. will put in additional machinery.

Commodore—Saw Mill.—Harley & Dewitt, of Johnston station, have purchased machinery for a saw mill,

Cordele — Barrel Factory. — Blodgett, Moore & Co. will enlarge their barrel factory later in the year.

Cordele—Cotton Factory.—The name of the company reported last week as organized to build a cotton factory is the Cordele Manufacturing Co. Plant is to cost $100,000. J. F. Hanson, of Macon, is president.

Cox—Oil Mill.—Harris & Mitchell contemplate establishing a cotton-seed oil mill. It will be a 3 or 4 press mill.

Emerson.— The Emerson Mutual Improvement Co. has been incorporated by J. F. Lang, O. H. Palmgren, A P. Anderson and others to deal in real estate. The capital stock is to be $25 000.

Forsyth—Oil Mill and Fertilizer Factory, &c.—W. T. Maynard and D. J. Proctor, lately mentioned as organizing a stock company to build a cotton-seed oil mill and fertilizer factory, have with J. W. Newton and W. T. Lawson incorporated the Co-operative Manufacturing Co. The capital stock is to be $25,000. They may build grist mill, etc., also.

Griffin—Dummy Railroad.—J. G. Rhea is interested in the dummy railroad reported last week as to be built. A company will be formed.

Macon — Railroad. — The Macon Construction Co. will let contract during July for the construction of 100 miles of the Macon & Birmingham Railroad, previously reported. W. H. Wells is chief engineer.

Macon—Water Works.—The bill to be introduced in the next session of the legislature authorizing the issuance of $150,000 of bonds for sewerage and paving will probably be amended by adding $100,000 for new water works. The mayor can give particulars.

Macon—Street Railroads.—The Macon City & Suburban Street Railway Co., lately mentioned, and the Central City Street Railway Co. have consolidated, with J. B Colgrove as president. They will improve and extend roads.

Macon—Plow Works.—Parties have purchased the plant and patents of the Burrows Plow Works at Hawkinsville and will remove to Macon.

Macon—Electric-light Plant.—A movement is on foot to have the city erect an electric-light plant of its own. The mayor can give particulars if anything is done.

Milledgeville—Oil Mill.—The American Cotton Oil Trust (office, New York), previously reported as to build a cotton-seed oil mill, have commenced work on buildings.

Mineral Bluff—Railroad.—The Knoxville Southern Railroad Co. (office, Knoxville, Tenn.) will, it is reported, commence at once the survey for an extension of their road to Mineral Bluff.

Newnan—Electric-light Plant.—M. T. Collins and others are organizing a company to erect an electric-light plant.

Newnan—Water Works —A bill will be introduced in the legislature to authorize the city to issue bonds to build the water works previously mentioned. The mayor can give information when anything definite is done.

Ringgold—Saw and Shingle Mill, &c.—Yates & Carson have lately started a saw and shingle mill and will add a corn mill and gin.*

Savannah—Railroad.—The Savannah & Western Railroad Co. have placed $5,000,000 of their bonds and will complete as soon as possible their road from Eden to Americus. The contract to build 40 miles, beginning at a point 7 miles from Eden, has been let to Wright & Struthers. They are to finish same by September 10.

Savannah—Railroad.—Charles Watkins, of Richmond, Va., Mike Brown, of Barnwell, S. C., John L. Hammond, B. A. Denmark and others have incorporated the Savannah Construction Co. to build the South Bound Railroad to extend from Savannah to Columbia, S. C. The capital stock is $250,000.

Savannah—New Industry.—The Central Railroad & Banking Co. are reported as negotiating for the establishment of a new industry. E. P. Alexander can give information if correct.

Savannah—Wharves.—The Central Railroad & Banking Co. will build large wharves for lumber and fertilizers.

Thomasville—Railroad.—A $100,000 stock company is being organized to build a railroad to Cordele.

Wadley — Railroad. — The Wadley & Mount Vernon Railroad Co. has been incorporated to build a railroad from Wadley to Mount Vernon, 50 miles. The capital stock is $200,000.

Washington — Compress. — Lyndon & Colley contemplate erecting a cotton compress during the summer.*

KENTUCKY.

Brandenburg—Railroad.—The Louisville, St. Louis & Texas Railroad Co. (office, Louisville) contemplate building a branch road from Brandenburg to Weldon.

California—Drying-house.—Capt. Hissem will, it is rumored, build a tobacco re-drying-house 40x120 feet.

California—Furniture Factory.—Thorne & Le Blond have started the manufacture of furniture.

Campbellsville — Spoke Factory. — The Coffee Spoke Manufacturing Co. will rebuild their factory lately reported as burned. Will probably want spoke lathes.

Cave City—Gold Mine.—A company has been formed to develop a gold mine.

Cloverport—Pipe Line, &c.—The Cloverport Mineral Co., previously reported as drilling for natural gas, will lay mains in the town.

Covington.—M. Schultz and others have incorporated the Garrard Avenue Lot Co.

Covington—Tunnel.—The Kentucky Central Railroad Co. contemplate making an open cut of their tunnel between Covington and Milldale.

Fordsville—Land.—Northern capitalists will probably purchase a large tract of mineral and timber land. C. H. Disman can give information.

Fulton — Gin. — A cotton gin will be erected.

Fulton—Planing Mill.—Parties will build a planing mill to cost $10,000, and have contracted for machinery.

Georgetown—Twine Factory.—A $100,000 stock company is being organized to start a factory for manufacturing hemp twine. Brick building 60x100 feet to cost with machinery about $30,000, will be erected. W. Z. Thompson is interested.*

Glasgow Junction—Pipe Line, &c.—The American Oil Co., R. Carroll, president, have sunk 5 wells, and are negotiating for the construction of a pipe line to Glasgow and Bowling Green.

Greensburg—Flour Mill.—W. R. Myers has purchased the saw mill of E. H. Hobson & Sons, and will add a roller flour mill.

Irvington—Railroad.—The Louisville, St. Louis & Texas Railroad Co., (ffice, Louisville), reported last week as to build a branch road commencing at Irvington, have awarded contract to Tansey & Corrigan.

Lebanon—Wood-working Factory.—C. E. Rogers & Co. have purchased the planing mill machinery of E. H. Hobson & Sons and are building a wood-working factory.

Lexington — Railroad — John Sweeney has received contract to build 3 miles of the Kentucky Union Railroad, (office, Louisville).

Lexington—Railroad —The Belt Railway Co. have let contract for their belt railroad around the city, previously reported, to Michael Dolan & Sons.

Loopee—Flour Mill.—Hagan & Stanley will put additional machinery in their flour mill. Mill will be moved to another site.

Louisville—Mantel and Casket Factory—T. J. Ripey, of Lawrenceburg, has purchased and will operate the Louisville Mantel & Casket Factory.

Louisville—Worsted Factory.—The Pioneer Worsted Co. has been organized to manufacture worsted yarns. Walker Richardson is treasurer and manager.

Louisville—Pipe Line.—The Kentucky Rock Gas Co. are locating their new pipe line, previously mentioned.

Louisville.—F. W. Morancy and H. H. Gocke have incorporated the Alto Vista Land Co. to deal in real estate, with an authorized capital stock of $15,000

Louisville — Granite. — The contract to furnish the city with 30,000 tons of granite has been awarded to the Arkansas Granite Co., of Little Rock, Ark , and not to the Mount Poney Granite Co , of Virginia. Contract amounts to about $210,000.

Louisville—Oil Lands, &c.—The Southern Oil & Pipe Co., of Cincinnati, Ohio, and the Kentucky Southern Oil & Gas Co. will probably consolidate. It is stated that if consolidated they will increase their capital stock and establish refineries at Glasgow and Bowling Green. They have an authorized capital stock of $15,000,000, and have leases and options on 150,000 acres of land in Kentucky and Tennessee.

Ludlow—Machine Shops.—The Mann-Boudoir Car Co. will, it is stated, build an addition to their machine shops.

Maysville—Cigar Factory.—E. A. Robinson is enlarging his cigar factory building by a three-story brick addition 50x20 feet. Lane & Worick have the contract.

Morganfield—Hedge Fences.—The Union County Hedge Fence Co. will increase capital stock to enlarge operations.

Newport — Grading, &c.—Proposals for leveling and grading about 35,000 cubic yards, and for building a road about 46,000 feet long, will be received until July 24 by A. H. Young, captain and A. Q M. U. S. A.

Owensboro—Wagon Factory.—The Owensboro Wagon Co., reported last week as building new paint shop 60x150 feet, have doubled capacity of their factory.

Owensboro—Gas Well.—The name of the stock company lately reported as organized to sink a gas well on the property of S. W. Long is the Pioneer Mineral & Gas Co. S. W. Long, B. J. Jansing, J. J. Williams and others are corporators. Authorized capital stock is $1,000,000. Estimates are being secured on machinery.

Taylorsville—Brick-yard.—A brick-yard will be started at once.

Stanford—Water Works.—Messrs. Vandeveer and Miller are investigating the cost of the erection of the water works previously reported. William Welsh can give particulars.

Winchester—Street Railway.—A street railway will probably be built.

LOUISIANA.

Abbeville—Bridge.—The time for receiving proposals for constructing the wooden drawbridge over Vermilion bayou, previously reported, has been extended to July 12. It is to be 150 feet long and 12 feet wide. J. T. Broussard can give further information.

Abbeville—Brick.—W. W. Edwards will receive until August 3 proposals for making and delivering 500 M bricks.

Arcadia—Railroad.—A subscription of $50,000 has been voted to the Alexandria, Arcadia & Fort Smith Railroad.

Centreville—Sugar mill.—G. G. Walker has purchased the sugar mill of Hon. Don. Caffrey at Franklin (Bethia plantation) and will move to his Buckeye plantation.

Cofield—Sugar-house.—J. C. Cofield has contracted for the erection at the sugar-house on his Point Houmas plantation of a 50,000 gallon double effect and pump.

Donaldsonville — Sugar-house. — Aaron Jacobs has contracted for a 50,000 gallon double effect and pump to be erected at the sugar-house on his Stella plantation.

Donaldsonville — Sugar-house. — James Teller has let contract for the erection of a 50,000 gallon double effect at the sugar-house on his Riverside plantation.

Donaldsonville—Railroad.—The railroad lately mentioned as to be built by B. Lemann & Bros, will be 3½ miles long. Gauge is 24-inch. Rails and cars are contracted for.

Lake Charles—Railroad.—Kennedy & Stone have a contract to grade 30 miles of the Kansas City, Watkins & Gulf Railroad and have commenced work.

Monroe—Bottling Works.—The Consolidated Ice Co. will add bottling works to their ice factory and have ordered machinery.

Monroe—Planing Mill.—F. Vollman is reported as adding a planing mill to his saw mill.

New Orleans—Electrical Railroad.—The Electric Traction & Manufacturing Co, reported in last issue as chartered with capital stock of $1,000,000 to operate electric railways, &c., will put their system in operation first on the Crescent City Railroad.

New Orleans—Furniture Factory.—The Seidel Furniture Manufacturing Co. has been incorporated to succeed Seidel Bros. The capital stock is $50,000.

Shreveport—Water Works.—The First National Bank, of New York City, has become owners of the Shreveport Water Works and will add filters.

Simsboro — Wagon Factory. — A stock company is being organized to start a wagon factory.

Vidalia—Canning Factory.—A canning factory will probably be established.

Vidalia—Broom Factory.—A broom factory has been started.

MARYLAND.

Baltimore—Copper Mines and Works.—Claas Vocke has purchased the copper mines and smelting works of the Vernon Mining Co. The mines are near Mount Washington.

Baltimore—Belting Factory.—The Gandy Belting Co. are moving their factory to Pratt and Fremont streets.

Baltimore—Bridge.—Thomas H. Disney, room No 12, Morse Building, will receive proposals until July 8 for the construction of a wrought iron Pratt truss bridge over the Big Patuxent river at Laurel Factory.

Baltimore—Furnace Factory.—The National Furnace Co. has been incorporated by Henry R. Gillingham, C. E. Savage, M. A. McGowan and others for the manufacture and sale of furnaces and heaters. The capital stock is $250,000.

Baltimore—Piano Factory.—The William Knabe & Co. Manufacturing Co. has been incorporated by Ernest J Knabe, Miss Emma T. Rieman, Charles Keidel and others to succeed William Knabe & Co., manufacturers of pianos, &c. The capital stock is $1,000,000.

Baltimore—Sugar Refinery.—The organization of the $1,000,000 company to build the sugar refinery with a daily capacity of 1 200 barrels, previously reported, will be completed in a few days. A site 250x800 at Curtis' Bay has been selected. Robert Garrett & Sons, E. Levering & Co., C. Morton Stewart and others are interested.

Baltimore—Iron Foundry.—S. B. Sexton & Son have built a new iron foundry, four stories, 120 feet front, on Conway street.

Baltimore—Saw Mills.— James Strong, John Plart and others are preparing to build saw mills to saw the logs that escaped from the boom at Williamsport, Pa., previously mentioned.

Baltimore—Paving.—Contracts for Belgian blocks and granite curbing for the repairing of Cathedral street, from Centre to Monument and from Madison to Mount Royal avenue, lately reported, have been let as follows: 50,000 blocks at $52 per 1,000, 53,000 at $59 75 and 2,600 feet of curb at 75 cents per foot, to the Woodstock Granite Co.; 50,000 blocks at $58.95 per 1,000, 50,000 at $60 per 1,000, and 1,000 feet of curb at 74 cents per foot, to William F. Weller, and 50,000 blocks at $62 per 1,000, to William E. Carey.

Belair—Carriage Factory.— The Bulett Carriage Co. are building an addition to their factory 24x150 feet. They have doubled capital stock.

Clayton — Railroad.—The Baltimore & Ohio Railroad Co. (office, Baltimore) contemplate building a branch road from a point on their Philadelphia Division at or near Clayton to Belair, and are making surveys.

Cumberland — Cement Works. — West Virginia and local parties have organized the Cedar Cliff Cement Co. with a capital stock of $100,000. Will manufacture cement.

Frederick—Abestos Mining.—The Montgomery County Mineral & Mining Co. has been organized by C. F. Markell, J. C. Motter, Dr. L. T. MacGill, Jr. and others to develop the 500 acres of land near Gaithersburg reported in last issue. Land contains deposits of abestos, yellow ochre, &c. Capital stock is $50,000.*

Rockville—Gold Mine —Mr. Hopkins, of Pittsburg, Pa., and others have purchased the Robert Stone property of 70 acres for $7,000 and will erect a ten-stamp mill.

Yellow Springs—Flour Mill.—The flour mill of Philip H. Shankel has been improved lately.

Washington, D. C.—Spike Factory, &c.—The Safety Spike & Rail Joint Co., Ralph Walsh, president, contemplate building works at some point in the South.

Washington, D. C.—Roads.—Mr. Beall, superintendent county roads, recommends that about $125,000 be spent in improving certain roads in the District.

Washington, D. C.—B. F. Leighton has purchased the farm of Mr. Wilson at Fenwick for a syndicate at a cost of $25,000. It is intended to open streets and lay off lots.

Washington, D. C.—Cable Road.—The Washington & Georgetown Railroad Co., previously reported as to change their street railroad to a cable road, will erect on Water street a brick car and power building, two stories, 400x120 feet, to cost $75,000.

Washington, D. C.—Stone.—The contract for furnishing stone for concreting purposes for the Congressional Library Building has been awarded to the Garrett Park Co., of Montgomery county, Md.

MISSISSIPPI.

Arcola—Saw Mill.—J. M. Dean, of Eckles, is considering the erection of a saw mill 3 miles from Arcola.

Ellisville—Saw Mill.—Ackenhausen & Bro. have placed a new 50 horse-power boiler in their saw mill and will add a planer.

Enterprise—Cotton Mill.—The Stonewall Manufacturing Co. will, it is reported, put $25,000 worth of new machinery in their cotton mill. Machinery is probably ordered.

French Camps—Flour and Saw Mills.—J. J. Carter has put new machinery in his flour mill and contemplates adding a band saw mill and other machinery.

Greenwood—Ice Factory.—The Greenwood Ice Co. has been organized to establish an ice factory.

Grenada—Ice Factory.—The Grenada Ice Factory has been incorporated by H. E. Cahn, C. J. Austin, E. G. Wilder and others, to establish the ice factory previously mentioned. The capital stock is to be $10,000.

Grenada—Lumber Mill, Ice Factory, &c. Joseph Newburger, of Coffeeville, has organized the company lately mentioned to build a saw, planing and shingle mill and ice factory. They will also establish bottling works.

Hashuqua — Cotton Mill.—W. G. & G. H. Hubbard have placed additional machinery in their cotton mill.

Meridian—Sash and Blind Factory.—A brick addition, 30x130 feet, will be built to the Meridian Sash & Blind Factory.

Meridian—Machine Shops.—The enlargement of the machine shops of the New Orleans & Northeastern Railroad Co. (office, New Orleans, La.) reported in last issue, includes the erection of a large two-story brick building to contain machinery for car building and a paint shop.

Vicksburg — Water Works.—The additional pump, lately mentioned as to be put in by the Vicksburg Water Supply Co., will have a daily capacity of 1,000,000 gallons.

West Point—Cotton Factory —The stock company, lately reported as being organized to build a cotton factory, will put up a factory building to cost with machinery, it is stated, $125,000. W. G. White can give particulars.

NORTH CAROLINA.

Asheville—Machine Shop.—J. H. Woody is enlarging his carriage shops to start machine shop.*

Cid—Mining.—New machinery will probably be erected at the mines of which J. M. Prim is superintendent.

Clinton—Veneer Works.—The Carolina Veneer Works have enlarged their works and put in additional machinery for manufacturing butter dishes, 37 machines for making grape baskets, &c.

Columbia Factory—Railroad.—The Cape Fear & Yadkin Valley Railroad Co., (office, Fayetteville), previously reported as to extend their Millboro Branch from Millboro to Columbia Factory, have awarded contract to Col. Hicks. Work will be started at once.

Durham — Cigar Factory. — Philip L. Thomas has lately started a cigar factory.

Enfield—Shuttle-block Factory.—Temple Gwathmey, of Norfolk, Va., will start a shuttle-block factory. He has purchased timber.

Fayetteville—Distillery.—L. A. Blue and W. Gillis are erecting a turpentine distillery at Piney Botton, in Cumberland county.

Hobgood—Saw Mill.—R. H. Gatlin, of Coakley, contemplates erecting a saw mill.

Hobgood—Planing Mill.—It is reported that the Tunis & Serpell Lumber Co., of Norfolk, Va., will build a planing mill. This is probably the planing mill previously reported as to be erected by Northern parties.

Hobgood—Lumber Mill.—J. R. Tillery, of Tillery's, will probably move a lumber mill to Hobgood.

Leaksville—Cotton Mill.— The Leaksville Cotton Mills will improve their mill and add some new machinery.

Lenoir—Canning Factory.—S. W. Hamilton has improved his canning factory.

Manchester—Distillery.—A. B. Williams and John D. Williams, Jr., will erect a turpentine distillery at their saw mill.

Morganton—Cotton Factory.—The Morganton Cotton Manufacturing Co. will enlarge their cotton factory just completed.

Nashville—Brick-yard.—V. B. Batchelor is starting a brick-yard.

New Berne—Cotton Factory.—W. E. Snelling and William Lorch are organizing a co-operative stock company to build a cotton factory. The capital stock is to be $50,000.

New Berne—Water Works.—A. K. Dennison contemplates a further extension of his water works.

North Carolina—Iron Mines.—It is reported that Chicago capitalists have organized a company with a capital of $2,500,000 for the development of iron ore lands in the northwestern part of North Carolina.

Red Springs—Machine Shop.—Mr. Paschall, of Wilson, will start a machine shop.

Raleigh — Water Works.—The Raleigh Water Works Co., lately mentioned, will probably put in new filters of 1,000,000 gallons capacity.

Wilmington—Electric-light Plant, &c.—The Wilmington Gas Light Co. and the North Carolina Electric Light Power Co. have consolidated. The electric-light plant will be removed to the gas works and doubled in capacity.

Winston—Tobacco Factory.—W. F. Smith & Sons have let contract for a new leaf tobacco factory to be of brick, five stories, 50x100 feet.

Worthville — Railroad.—The Richmond & Danville Railroad Co. (office, Richmond, Va.) are surveying an extension of their road from Worthville to Cedar Falls.

SOUTH CAROLINA.

Berkeley County—Phosphate Lands, &c. James E. Campbell, of Ohio; James B. Hughes, of Washington, D. C., and others have optioned the phosphate lands, including mining plant, railroad and equipments, &c., owned by the Rose Mining Co. and the St. Andrews Mining Co., and are reported as negotiating for another large tract. There are about 2,000 acres of land in each tract.

Columbia—Saw Mills, &c.—The Palmetto Land Co. have purchased 1,500 acres of timber lands and erected two saw mills. They have the contract for furnishing the Congaree Construction Co. with lumber for trestling and for the Columbia canal.

Columbia — Railroad. — The Congaree Construction Co. have sublet contract for grading the Columbia, Newberry & Laurens Railroad from near Little Mountain to Newberry, about 20 miles, to Coleman & Rice.

Greenville — Brick-yard.— A brick-yard has lately been started by J. P. Goodwin.

Greenville—Carriage Factory.—Cantrell & Co. are erecting a new building for their carriage factory at a cost of $5,000.

Greenville — Machine Shops. — H. C. Markley will put new machinery in his machine shops.

Greenwood—Brick-yard.—Wells & Mayo have started a brick-yard with a daily capacity of 40 M bricks.

Greenwood — Canning Factory.— J. C. Hill contemplates starting a canning factory.*

Laurens — Cotton Mill.—The Laurens Manufacturing Co. have let contract for their cotton mill, previously mentioned as to be built. Cost contemplated is $200,000.

Piedmont—Cotton Mill.—The Piedmont Manufacturing Co, operating cotton mills, have increased their capital stock from $500,000 to $600,000.

Sumter.—The Central Carolina Land & Improvement Co., capital stock $10,000, has been incorporated by Rufus C. Barkley, of Charleston; John S. Silver, of New York, and A. Ames Howlett, of Syracuse, N. Y.

Sumter—Planing Mill.—Lukens & Reifsnider are erecting a planing mill.

Union—Handle Factory.—C. R. Roberson is thinking of starting a factory for manufacturing handles of different kinds and grass and grain cradle swaths.*

Union—Cotton Factory.—A stock company is being organized to build a cotton factory. The board of trade can give information.

TENNESSEE.

Chattanooga—Plow Factory.—It is reported that W. S. Johnson, of Knoxville, will manufacture his plow at Chattanooga.

Chattanooga—Electric Railways.—The Pennock Electric Railway Co. has been incorporated by A. M. Pennock, Morris Child, Jr., G. W. Huddleton and others for the manufacture of electric motive power for street railroads.

Chattanooga—Grate and Stove Works.—The Stella Grate Manufacturing Co., previously reported as incorporated, are erecting works at East End.

Chattanooga—Fence Factory.—Brown Bros. have started ornamental fencing works.

Chattanooga—Steel Works.—The Leighton Southern (cast) Steel Works are being enlarged.

Chattanooga—Street Railroad, Water Works, &c.—The Cameron Hill & Hotel Park Street Railroad Co., previously reported as to build an incline railway, a street railway and water works, have let contracts for same as follows: For standpipe and boiler to Armstrong Bros., of Springfield, O; for engine and winding machinery for the incline to G. W. Wheland, of Chattanooga, and for the construction of incline and street railways to Tennessee Building & Contracting Co., of Chattanooga.

Chattanooga—Wood-working Factory.—J. T. Burford, W. G. McAdoo, C. A. Lyerly and others have incorporated the Chattanooga Sash, Door & Blind Co. The capital stock is $25,000.

Cleveland—Flour Mill.—The Cleveland Flouring Mills are enlarging their mill.

Cleveland—Woolen Mill.—The Cleveland Woolen Mills are reported as enlarging their mill.

Clinton—Saw Mill.—P. A. Demens, of Knoxville, and A. M. Taylor, of Oakland, Fla., will build a large saw mill.

Dayton—Pump Factory.—The Dayton Pump & Hardware Manufacturing Co. has been chartered.

Decherd—Street Railway.—The construction of a street railway from Decherd to Winchester is being agitated.

Erin—Cooperage Works.—The Bauer Cooperage Co. are rebuilding their works previously reported as burned. The loss was $12,000.

Erin—Water Works.—The erection of water works is contemplated. The mayor can give information.

Graysville—Coal Mines, &c.—A new company has been organized with $500,000 capital stock, by Northern parties, to succeed the Fox Coal & Coke Co. and develop their property on a larger scale.

Greeneville—Tobacco Factory.—The Greeneville Tobacco Manufacturing Co. will enlarge their factory.

Kimmins—Saw Mill.—Nashville parties have bought timber lands, and have moved a saw mill to same.

Kingston.—The Kingston Land & Improvement Co. has been organized.

Knoxville—Ice Factory.—The Crystal Ice Co. will enlarge their plant, adding a new 15-ton ice machine.

Knoxville—Cider and Vinegar Works.—H. Mitchell has established the Knoxville Cider & Vinegar Works for the manufacture of cider, vinegar and ginger ale. Capacity will be 100 barrels per diem. He contemplates starting similar works at other places.

Knoxville—Railroad, Iron Furnaces, &c. Frank I. Stone, Robert Morrison, W. K. Morrison and Robert Pritchard, of Chattanooga; James P. McDonald, of Knoxville, and others have incorporated the Knoxville & Northeastern Railroad Co. to build a road from Knoxville to the North Carolina State line, with branches, in all about 60 miles. Surveys are being made. The parties interested in the road have secured large tracts of iron ore lands near Knoxville, and speak of developing and building two large iron furnaces at Knoxville

Lawrenceburg—Cotton Mill.—W. H. Sykes will put a new water wheel in at his cotton mill.

Lexington—Planing Mill.—Pearson, Hutton & Co. will erect a planing mill.

Loudon—Flour Mill.—J. M. Robinson will put new wheat cleaning machinery in his flour mill, and probably short process for flour.

Madisonville—Furniture Factory.—Joseph Wolf, of Cincinnati, O., has bought a site to build a furniture factory.

Madisonville—Planing Mill.—S. D. Pourch, of Dalton, Ga., will build a planing mill.*

Manchester—Flour Mill.—The Coffee County Farmers' Alliance are organizing a company to build the 40-barrel roller flour mill reported last week. It is to be a custom and merchant mill, and with the shortest system possible for making good flour.*

Manchester—Stave Factory.—The Manchester Manufacturing Co. have added $2 000 of machinery for manufacturing slack barrel staves.

McMinnville—Gas Well.—The McMinnville Natural Gas & Oil Co., lately mentioned as organized, want bids for sinking a well from 1,500 to 2,000 feet.

Memphis—Car-coupler Works.—The Layman Safety Car-coupler Co., of Little Rock, Ark., are negotiating for the establishment of works for the manufacture of their car couplers.

Montvale—Land.—J. C. Engle was the owner of the Montvale Springs property reported in last issue as purchased by Eastern capitalists. The price was $25,000. Property consists of 4,500 acres of mineral and timber lands, and will be developed.

Nashville—Electrical Railroad.—The South Nashville Street Railroad Co. will change their road to an electrical road.

Nashville—Electric Railway.—The City Electric Railway Co., mentioned in last issue as organized, have received permit to build their road. Work will be commenced shortly. The Thomson-Houston Electric Co. have the contract for machinery for the plant.

Nashville—Printing Office.—Jaques & Sawyers have started a printing office.

Nashville—Flour Mill.—The Nashville Mill Co., William Litterer, president, will probably increase their capital stock and build another flour mill.

Oregon—Cotton Mill.—Henry Warren & Son have lately put some new machinery in their flour mill.

Oregon—Grist Mill.—The grist mill of Henry Warren & Son is being improved.

Tullahoma—Saw Mill.—Dewey & Troxler are erecting a saw mill.

Tullahoma—Ice Factory—The Tullahoma Ice Co. have put new boilers in their factory.

Tullahoma—Publishing.—E. N. Heaton and E. S. Jones will publish the Progressive Age.

Union City—Spoke and Rim Factory.—Beck & Gardner, reported last week, will greatly increase the capacity of their spoke and rim factory, and will put in new engine.*

TEXAS.

Austin.—The Edison Electric Co., of New York, have received contract for wiring the State Capitol building for electric lights lately mentioned.

Austin—Iron Fence.—The capitol board will receive new bids for iron fencing for the capitol grounds.

Bryan—Water Works.—The city will build water works and bids are invited until July 22 by A. B Carr. Bids will be received including wells or works and wells separate.

Cisco—Elevator.—The Alliance Roller Mill Co., previously reported as contemplating building a grain elevator, have started work.

Dallas—Street Improvements.—The city will issue $200,000 of bonds for street improvements. The mayor can give particulars.

Dallas—Natural Gas.—A company has been organized to drill for natural gas.

Dallas—Railroad.—The Texas Trunk Railroad Co. have issued a mortgage for $1,000,000, and will, it is stated, extend their road beyond Cedar.

Denison—Water Works.—The Denison Land & Investment Co. will not build water works as stated last week, the city now having good works.

Denison—Cotton Factory.—The capital stock of the Denison Cotton Manufacturing Co., reported last week, is $500,000, and not $50,000 as stated.

Denison—Brick and Tile Works.—J. R. Martin, reported last week as to start brickyard, will with E. J. Perry and R. H. Tobin start brick and tile works, and have ordered machinery. Capacity for brick will be 40 M per 10 hours.*

El Paso—Gold Mine.—Lee Smith will develop a gold mine.

Fisher—Corn Mill and Gin.—The Fisher Mill & Gin Co. will build the corn mill and cotton gin reported previously. Power will be 30 horse.*

Flatonia—Ice Factory.—An ice factory is reported as being erected.

Gainesville—Railroad.—A company will be chartered to build a railroad from Gainesville to a point on the Sabine river pointing toward Alexandria, La. 25 miles will probably soon be built. William Hudson is interested.

Galveston—Jetty.—O. H. Ernst, Major of Engineers, U. S. A., will receive proposals for constructing a timber jetty in Trinity river until July 26.

Houston—Electric Railroad.—The Houston Belt & Magnolia Park Railway Co., previously reported, will shortly begin work on their railroad. It is to be operated by electricity.

Houston.—G. W. Harde and others have incorporated the Liberty County Lumber Co., with a capital stock of $30,000.

Hughes Springs—Iron Foundry and Plow Factory.—Keasler & Vicker are building an iron foundry and plow factory.

Laredo—Railroad.—The San Antonio & Aransas Pass Railroad Co. (office, San Antonio) will commence at once the survey for their extension from Kennedy Junction to Laredo, 150 miles previously reported.

Llano County—Iron Lands.—J. S. Logan, of St. Joseph, Mo., has purchased iron ore lands.

McGregor—Flour Mill.—Johnson, Kirkpatrick & Co., reported last week as to move flour mill from Lebanon to McGregor, will add new rolls, &c. Capacity will be 75 barrels daily *

Palestine—Steam Laundry.—Mr. Sawyer has started a steam laundry.

Sherman—Furniture Factory.—A furniture factory is reported to be built. If true F. M. Goode can give particulars.

Sherman—Iron Works.—Mr. Harris, of Paris, has purchased the Sherman Iron Works from J. W. Dickinson for $25,000.

Sherman—Factories.—C. W. Lewis, J.W. Levy, G. W. Marshall and others are organizing a $500,000 company to secure and aid in the starting of manufacturing enterprises.

Taylor—Steam Laundry.—A steam laundry is being started.

Waco—Electric-light Plant.—The Waco Gas Co., lately mentioned as to add an electric-light plant, have added to electric plant a new 100 horse-power engine and machinery with capacity of 1,000 incandescent lights.

Waxahachie—Flour Mill.—B. R. Moffett has added new machinery to his flour mill, and is building a grain elevator of 40 M bushels capacity.

Weatherford—Compress.—The Dallas Compress Co., lately mentioned, have decided to move their cotton compress from Dallas to Weatherford.

VIRGINIA.

Big Island—Pulp and Paper Mills.—P. A. Krise and others, of Lynchburg, have secured a controlling interest in the Alleghany Pulp & Paper Co. They will increase the capital stock to $100,000, double the capacity of their pulp mill and add a paper mill.

Big Stone Gap—Railroad.—The Mason, Gooche & Hoge Co., of Frankfort, Ky., reported in last issue as contracting to complete the South Atlantic & Ohio Railroad to Big Stone Gap, have sublet the contract to Carter & Co. and others. Work has commenced.

Big Stone Gap—Woolen Mill.—It is reported that a woolen mill is being erected.

Carroll County—Copper and Iron Mines. George W. Palmer, of Saltville, and others have purchased the Clayton copper and iron mines.

Chase City—Railroad.—Smith & Henwood have a contract for grading part of the Atlantic & Danville Railroad in Mecklenburg county.

Chilhowie—Pottery.—E. W. Mort is enlarging his pottery.

Falmouth—Bridge.—George J. Lightner will receive bids until July 20 for rebuilding the iron bridge over the Rappahannock river recently destroyed by the flood.

Glen Wilton—Iron Mine.—The Circle & Woodson Co. has been organized to mine iron ore.

Lynchburg—Electrical Railroad.—It is reported that a syndicate is being formed to purchase and extend the Lynchburg Street Railroad and operate with electric power.

Manassas—Corn Mill.—Jeremiah Stover will erect a roller corn meal mill with capacity of from 20 to 25 bushels per hour. Building will be 40x40 feet.*

Norfolk.—A land and improvement company has been organized with J. L. Bilisoly president; H. L. Watts, vice-president, and J. W. Brown, Jr., secretary. $34,000 have been subscribed to the capital stock.

Norfolk—Exposition.—The Atlantic Seaboard Exposition Co. has been chartered with John L. Roper, president. The capital stock is to be not less than $30,000 nor more than $300,000.

Petersburg—Water Works.—The common council have appropriated $11,000 for

rebuilding the water-works dams and repairing the reservoirs.

Portsmouth.—The name of the company lately reported as being organized by J. H. Hume, J. L. Watson and others is the Portsmouth Land & Improvement Co. The capital stock is to be not less than $20,000 nor more than $400,000.

Radford—Water Works.—Surveys are reported as being made for water works. The Radford Land Co. can probably give information.

Richmond—Shoe Factory.—E. Levy, of Asheville, N. C., will start a large shoe factory.

Richmond—Canal.—Charles E. Bolling, superintendent city water works, recommends that certain improvements be made to the James river canal at a cost of about $25,000.

Richmond—Pipe Factory.—The Novelty Pipe Co. has been incorporated to manufacture smoking pipes, cigar and cigarette holders, &c., with William Simpkin as president, and M. B. Porteaux, secretary. The capital stock is to be not less than $5,000 nor more than $50,000.

Richmond—Land.—The North Side Land Improvement Co. has been incorporated with J. M. Fourqurean, president; J. D. Mosby, vice-president, and W. H. Dunn, secretary. The capital stock is to be not less than $25,000.

Roanoke—Implement Factory.—Efforts are being made to have McCormick & Co., of Chicago, Ill., establish a branch factory for the manufacture of agricultural machinery.

Roanoke—Pulp Mill.—Walter P. Huff & Co. are thinking of organizing a company to start a pulp mill and want information as to the value of pulp.*

Staunton—Machine Shops.—B. F. Stockdon & Bro. have purchased the machinery of the Augusta Agricultural & Machine Works, and will add same to their machine shops.

Staunton—Shoe Factory.—The Staunton Shoe Factory, C. L. Weller, president, have purchased a four-story building for their factory lately reported.

South Boston—Tobacco Factory.—R. H. Edmondson, lately reported as to start a tobacco factory, has with others organized the Early Bird Tobacco Works. Mr. Edmondson is president.

WEST VIRGINIA.

Benwood—Iron Furnace.—The Riverside Iron Works, previously reported as to build another iron furnace, have let contract to McClure & Schuler, of Pittsburgh, Pa. There will be three Massick & Crooke hot-blast fire-brick stoves. Present furnace is 75x16 feet.

Bramwell C. H.—Railroad.—The West Virginia & Ironton Railroad Co. will meet on July 16 to consider the extension of their line, increasing capital stock, &c.

Bramwell C. H.—Electric-light Plant. The Bramwell-Pocohontas Electric Light Co., lately mentioned as incorporated, will build their central station at Mill Creek. The Westinghouse Electric Co., of Pittsburgh, Pa., have the contract.

Charleston—Lock.—Thomas Turtle, Captain of Engineers, U. S. A., will receive proposals until July 30 for building Lock No. 8 of the Great Kanawha river improvement. Information furnished on application.

Charleston—Woolen Mill and Machine Shop.—The Kanawha Woolen Mills & Machine Shops have been incorporated by J. C. Ray, Frank Woodman, A. F. Hatcher and others to operate the Kanawha Woolen Mill and a machine shop. The authorized capital stock is $100,000.

Charleston—Lumber Mill.—J. C. Roy & Co., operating lumber mill, have incorporated as a stock company. Authorized capital is $100,000.

Ceredo—Lumber Mill.—The J. H. Millender Lumber Co. have been incorporated by J. H. Millender, H. J. Zonk and others for the manufacture of lumber, laths, shingles, etc. The capital stock is $100,000.

Ellenborough—Gas Lands.—J. M. Guffy & Co., of Pittsburgh, Pa., are leasing land to prospect for natural gas.

Meadow Bluff—Creamery.—Harvey Hedrick contemplates establishing a creamery.

Monongalia County.—M. L. Core has struck an oil well of an indicated flow of 300 barrels daily. Other wells are being sunk on his land.

Parkersburg—Bridge.—R. N. Corbitt will receive proposals until July 10 for constructing the foundations, masonry and necessary grading for the bridge over the Little Kanawha river.

Parkersburg—Brewery.—John Busch and others, reported last week as to build a brewery, have incorporated the Parkersburg Brewing Co. with an authorized capital stock of $500,000. Capital stock subscribed is $48,000.

Upshur County—Timber Lands.—Pennsylvania parties have purchased 10,200 acres of timber land for $30,600 from J. W. Heavner. They will develop.

Wheeling—Tobacco Factory.—Block Bros. will erect an additional building at their tobacco works for storage, two stories. Site is 100x120 feet. Capacity is to be 5,000,000 pounds leaf tobacco. Elevators will be put in.

White Sulphur Springs.—Electric-light Plant.—An electric-light plant has been erected at the White Sulphur Springs Hotel.

BURNED.

Cartersville, Ga.—Bartow Powder Works destroyed by an explosion.

Gainesville, Texas.—The tin cornice factory of Thompson Bros. wrecked by an explosion; loss about $2,000.

Hopkinsville, Ky.—The whisky distillery of Mr. Henderson, near Pilot Rock.

Kearney, Ark.—The saw and planing mill of the Kearney Lumber Co.; loss $12,000. Will be rebuilt.

Piedmont, Ala.—The saw mill of Tomlin & Cowden, near Piedmont; loss $2,500.

Port Republic, Md.—The mill of John Locks was wrecked by the late flood.

Wakulla, N. C.—The saw mill of N. McN. Graham damaged by a boiler explosion.

INDUSTRIAL NOTES FROM RADFORD—RADFORD, VA., June 25, 1889.—The stove foundry, moving from Cincinnati, O., is under contract and work has begun. The Norfolk & Western Railroad are surveying preparatory to extending its track to the furnaces and factories. The work has been ordered to be pushed at once. Surveyors are now engaged in running the line for the water works. The water is to come by canal from New river, some three miles above Radford. The Radford Knitting Co. are now digging the foundation for their knitting factory, and will push it to early completion. The Sturdevan & French New York House Finishing Co. will soon move into new quarters, their present shops being two small. The new depot is nearing completion, and will be a fine one. Work on the new hotel is being pushed.

BARCLAY & CROCKETT.

FURNITURE FACTORY AND PLANING MILL—DALTON, GA., June 27, 1889.—I have sold land at Madisonville, Tenn., to Joseph Wolf, of Cincinnati, Ohio. He is now in Mississippi and will remain about six weeks; he intends erecting a furniture factory, that will cover an acre of ground, on the land I sold him. Capt. S. D. Poarch has arranged to put a planing mill at that point, Madisonville; his present address is Dalton, Ga. He will need a planer and other supplies.

W. A. CANNON.

Building Notes.

Americus, Ga.—Thornton Wheatley will receive proposals until July 20 for building the church for the Baptists, previously reported. A. C. Bruce, of Atlanta, is the architect.

Americus, Ga.—Hotel.—The Allen House will be enlarged.

Anniston, Ala.—Mr. Simmons, of Birmingham, will build a two-story market-house, 120x30 feet, to cost $6,000. Wiley, Hudson & Hadnet have the contract. Chisolm & Green are the architects.

Arkansas City, Ark.—Hotel.—The Kentucky & Arkansas Land & Industrial Co. will build a hotel. Work is to be started within 30 days.

Asheville, N. C.—Hotel.—A. G. Hallyburton will build a new hotel in place of the one recently burned. It is to be three stories, and will cost about $8,000.

Asheville, N. C.—George Vanderbilt, of New York, lately mentioned as purchasing property in Buncombe county, will, it is reported, build a summer residence 250 feet in length and improve the property at a cost of $250,000.

Athens, Ga.—Hotel.—A company is being organized to build a hotel.

Atlanta, Ga.—A branch of the Southern Building & Loan Association has been organized with R. U. Hardeman, president, and B. H. Austin, secretary.

Atlanta, Ga.—Nicholas Ittmer, of Decatur, has been awarded the contract to build the additional officers' quarters, barracks and adminstration buildings, previously reported, on the military reservation near Atlanta.

Atlanta, Ga.—G. B. Everett and J. R. Dickey will build a number of dwellings on Peachtree street.

Baltimore, Md.—The $25,000 addition to the Manual Training School, lately mentioned, will be four stories, with basement, 54x90 feet, of brick and granite. The basement is to be a natatorium. The present building will be remodeled. S. R. Adams and H. P. Suman prepared the plans.

Baltimore, Md.—The mayor has signed ordinances appropriating $7,500 for the purchase of a site and $21,000 for the erection of a building for Primary School No. 24; also $21,000 for a new building for Primary School No. 13; $10,000 for a site and $21,000 for a building for a new primary school, and $7,000 for a site and $18,000 for a building for Annex School No. 3.

Baltimore, Md.—Charles Milske will erect 4 three-story buildings on Baltimore street; W. W. Watts, 7 two story buildings on Hull street; R. T. Foster, 6 two-story buildings on Mount street; E. W. Gorman, 9 two story brick buildings on Collington avenue, and 10 three-story brick buildings on Baltimore street; T. H. Harrison, 9 two-story buildings on Lanvale street; Jacob Saum, 15 two-story buildings on Andre street; Otto Goldbach, 15 two-story buildings on Patterson Park avenue; G. C. Hershman, 6 on Cannon street, and Henry Westfall, 10 on Covington street.

Baltimore, Md.—The contract for building the addition to No. 11 Primary School, previously reported, has been awarded to J. J. Willis at $9,999.

Baltimore, Md.—The National Trust & Guarantee Co. is being organized and will erect a large building.

Baltimore, Md.—The Lafayette Avenue M. E. Church will erect a new edifice on Fulton avenue.

Barboursville, W. Va.—The Barboursville Building & Loan Association has been incorporated by M. S. Thornburg, C. H. Miller, G. E. J. McComas and others with an authorized capital stock of $500,000.

Birmingham, Ala.—B. M. Allen will erect a four-story brick building.

Birmingham, Ala.—The Iron State Building & Loan Association has been incorporated by R. D. Johnson, E. S. Parker, W. B. Copeland and others with an authorized capital stock of $10,000,000.

Birmingham, Ala.—Mr. Potter, of Brooklyn, N. Y., will, it is reported, erect a five-story building to cost $300,000.

Birmingham, Ala.—W. A. Walker and B. F. Roden will erect 3 three-story buildings on Third avenue.

Blount Springs, Ala.—Hotel.—A company will probably be organized to purchase the Blount Springs from the Messrs. Sloss, of Birmingham, and build a sanitarium, hotel and bath houses.

Brunswick, Ga.—Hotel.—The erection of another hotel is projected.

Buena Vista, Va.—The name of the syndicate mentioned in last issue as to build a number of dwellings is the Buena Vista Building Co. They have contracted to build 150 houses. E. J. Jones is interested.

Cartersville, Ga.—A branch of the Southern Mutual Building & Loan Association has been organized with C. H. Smith, president, and B. R. Mountcastle, secretary.

Chattanooga, Tenn.—W. H. Floyd is preparing plans for an exposition building.

Charleston, W. Va.—H. D. Shrewsbury will erect a business house 52x100 feet on Capitol street.

Columbus, Ga.—G. G. Jordan, J. W. Murphey, C. E. Battle and others have incorporated the Interstate Building & Loan Association.

De Leon Springs, Fla.—Hotel.—It is reported that a company of capitalists will build a hotel.

Denton, Texas.—The Denton Building & Investment Co. has been incorporated by J. P. Blount, S. P. Allison and others. Capital stock is $50,000.

Durham, N. C.—Another church will probably be built by the Methodists.

Elberton, Ga.—J. P. Shannon and others will organize the Elberton Building & Loan Association.

Fayette C. H., W. Va.—Hotel.—G. W. McVey contemplates building a hotel.

Fayetteville, Ark.—Byrnes & Blackmer have received contract for the erection of the three-story office and hall building 90x52 feet, previously reported as to be built by the Bank of Fayetteville.

Fort Payne, Ala.—A new church will be built for the Episcopalians. W. G. Taylor can give particulars.

Frankfort, Ky.—Proposals will be received by Grant Green until July 16 for erecting new buildings for the Kentucky Institute for Feeble-minded Children. McDonald Bros., of Louisville, are the architects.

Franklin, Tenn.—The school lately reported as to be built by Wall & Mooney will cost $6,000.

Gaffney City, S. C.—The Farmers' Alliance will build a storage warehouse.

Galveston, Texas.—Hotel.—L. J. Clark, of Minneapolis, Minn., has purchased the Beach Hotel for $265,000.

Greenville, S. C.—The Greenville Cotton Seed Oil Mills will build about 20 seed warehouses at different points.

Greenville, S. C.—Mitchell & Furman will organize a branch of the National Building & Loan Association of New York.

Grenada, Miss.—George Lake will receive proposals until July 16 for remodeling the M. E. Church South. James B. Cook, Memphis, Tenn., is architect.

Harrodsburg, Ky.—A branch of the Southern Building & Loan Association has been organized with G. J. Johnson, president, and B. W. Allin, secretary.

Healing Springs, Ala.—The Baptists will build a college at an estimated cost of $100,000. Work on the preparatory building has been commenced.

Hillsboro, Texas.—A new courthouse will probably be built. Judge Overton can give information.

Kingston, N. C.—Hotel.—Mr. Nunn will enlarge and improve the hotel Tull.

Knoxville, Tenn.—E. C. Camp has let contract for the stone work for his residence to G. Gade & Co., of Washington, D. C. The building will be 63x73 feet. A. B. Mullett, of Washington, D. C., is the architect.

Knoxville, Tenn.—J. W. Borches will erect a four-story building 50x37 feet on Asylum street, of brick and stone. An elevator will be put in. Bauman Bros. are the architects.

Lake Worth, Fla.—Hotel.—H. L. Hart, of Palatka, will build a large hotel.

Lincolnton, N. C.—Hotel.—H. W. Burton, J. W. Roberts and others are making efforts to organize a stock company to build a hotel. Capital will be at least $10,000.

Little Rock, Ark.—The Davis-Reinman Co. will build an additional story, 140x150 feet, to their stable. F. J. Rickon is preparing plans.

Little Rock, Ark.—George H. Sanders has let contract for his five-story building, 50x140 feet, previously reported, to Pettefer Bros. The cost will be $30,000. Orlopp & Kusener are the architects.

Lonoke, Ark.—Proposals for building a jail for Lonoke county will be received until July 31 by P. H. Wheat. Orlopp & Kusener, of Little Rock, are architects. Full particulars furnished on application.

Louisville, Ky.—Strauss & Co. will erect a five-story store building.

Louisville, Ky.—Fisher, Leaf & Co. contemplate erecting a large building. Bourlier Bros. contemplate building a new theater.

Manchester, Va. — The Presbyterian Church, of which J. Cleveland Hall is pastor, will erect a new edifice of brick to cost $10,000.

Marianna, Ark.—Lee county will build a new jail. W. T. Derrick can give particulars.

McComb, Miss.—The Amite & Pike County Warehouse Association have commenced work on a cotton warehouse two stories, 30x60 feet.

Memphis, Tenn.—The contract for erecting the three school buildings, previously reported, has been awarded to M. P. Blars, of Chicago, Ill., at about $60,000.

Meridian, Miss.—Abe Rosenbaum will erect a three-story brick building, 75x185 feet, to contain 7 stores and two halls.

Meridian, Miss.—The city will build a jail and has purchased a site. The mayor can give particulars.

Morrillton, Ark.—H. V. Crozier will erect 6 two-story brick store buildings with iron fronts.

Nashville, Tenn.—The city will appropriate $23,000 to build a police station and fire engine-house. A site 72x140 feet has been purchased for $5,000. W. C. Smith has prepared plans.

Nashville, Tenn.—The Westminster Church will erect a new edifice to cost about $10,000.

Nashville, Ark.—Hotel.—The Merchants' Hotel Co., capital stock $7 500, has been organized with J. F. Smith as president.

Newnan, Ga.—A branch of the American Building & Loan Association has been organized.

New Orleans, La.—The St. Tammany Sanitarium Co. have been incorporated with Alexander K. Finlay, president; Frank Roder, vice-president, and John W. Fairfax, secretary, to establish a sanitarium on the Roche Mineral Well property, and the capital stock is $50,000.

Parkersburg, W. Va.—Hotel —The hotel reported in last issue as to be built by Peyton & Farrish will contain 85 rooms. Mr. Cramer, of Cleveland, O., is the architect.

Pendleton, S. C.—The Bank of Pendleton, M. W. Hunter, president, will erect a bank building.

Reisterstown, Md.—The trustees of the Hannah More Academy have awarded the contract for the Wyman annex to Robert Caron at $5,000.

Rockport, Texas.—Proposals for building the courthouse, previously mentioned, will be received until July 8 by L. F. Bailey. It is to be three stories, of brick and stone. J. R. Gordon, of San Antonio, is architect.

Rome, Ga.—Hotel.—J. J. O'Neil has contract for the rebuilding of the East Rome Hotel.

Rutherfordton, N.C.—The Rutherfordton Hotel Co. have let contract for their hotel, previously reported, to J. F. Arrowood. S. L. Leary, of Charlotte, is the architect. The cost will be about $10,000.

Sardis, Miss.—A branch of the American Building & Loan Association has been organized with E. S. Walton, president; J. B. Boothe, vice-president, and W. H. Wall, secretary.

Searcy, Ark.— The Peoples' Bank will erect a bank building to cost $5,000.

Selma, Ala.—B. G. Chrisolm, of Anniston, has prepared plans for the $15,000 school building lately mentioned.

Shreveport, La.—A building and loan association has been organized with W. P. Ford president.

Shelbyville, Ky.—A building and loan association has been organized with J. T. Middleton, treasurer, and E. J. Willis, secretary.

Suffolk, Va.—A new building will be erected for the Nansemond Seminary.

Tampa, Fla.—Hotel.—Dr. H. T. Lykes has decided to convert his buildings into a hotel.

Tampa, Fla.—Hotel.—R. F. Webb will build a three-story brick hotel.

Warrenton, N. C.—Hotel.—A large hotel will probably be built. W. P. Baughan can give particulars.

Washington, D. C.—T. F. Schneider has prepared plans for 6 three-story brick and stone residences to be built on R street at an estimated cost of $50,000.

Washington, D. C.—Chris. Ruppert will remodel his building on F street to an office building, six stories, 20x99 feet, at a cost of about $15,000. A passenger elevator will be put in.

Washington, D. C.—Steam heat will be put in the new building for St. Peter's Church, reported last week as to be built at a cost of $83,000. Owen Donnelly has the contract.

Washington, D. C.—George W. Breckenridge will build 4 brick dwellings to cost $10,000; J. W. Thompson, 2 three-story buildings, 23x100 feet each, to cost about $15,000; C. F. Behrens, 2 brick dwellings to cost about $8,000; Rev. Mr. Town, a $10,000 residence to be heated by steam or hot water; Martin F. Morris, a $25,000 residence on Massachusetts avenue; Mrs. Elizabeth D. Taylor, 2 three-story dwellings to cost $13,000; Mrs. Hayden, an $18,000 dwelling on Sixteenth and Blake streets; Dr. L. Wilson, a $7,000 dwelling; R. B. Hine, a residence on L street. N. T. Haller has plans for 4 dwellings to be built on L street of brick and brownstone and to cost about $36,000; also for 6 dwellings to be built on Twenty-second street and to cost about $35,000; C. A. Schneider has prepared plans for 4 dwellings at Seventeenth and P streets to be heated by steam and to cost $24,000.

Waverly, Tenn.—Hotel.—An $8,000 hotel will be built.

Waycross, Ga.—Efforts are being made to have a branch of the State University located in Waycross. Dr. B. F. Williams can give particulars.

Wilkesboro, N. C.—Hotel.—A company is being organized to build a hotel to cost $10,000 or $12,000.

Winston, N. C.—A building and loan association has been organized with A. B. Gorrell, president, and B. B. Owens, secretary.

Winston, N. C.—Hotel.—The erection of a large hotel is projected. The secretary of the Chamber of Commerce can give particulars when anything is done.

Winston, N. C.—A market-house will probably be built. The mayor can give information.

New Southern Banks.

Asheville, N. C.—The Bank of Asheville will be changed to a national bank.

Baltimore, Md.—The National Trust & Guarantee Co., capital stock $500,000, is being organized.

Big Stone Gap, Va.—Messrs. Howe and Newman, of Louisville, Ky., contemplate starting a bank.

Birmingham, Ala.—The Jefferson County Savings Bank have declared a 6 per cent. semi-annual dividend.

Blackville, S. C.—The Blackville Loan & Savings Bank, mentioned lately as being organized, has a capital stock of $25,000. Simon Brown, W. H. Briggs and others are the corporators.

Brunswick, Ga.—A $100,000 State bank is reported to be organized by J. M. Madden and others.

Bryan, Texas. — The Merchants and Planters' National Bank has been organized. J. N. Cole is president; H. R. Hearne, vice-president, and J. P. Burroughs, cashier.

Camden, Ark.—The Camden National Bank has been organized with C. N. Rix as president, and C. K. Sithen, cashier. Capital stock is $50,000.

Griffin, Ga.—The name of the $100,000 bank reported last week as being organized is the Merchants and Planters'. J. D. Boyd and D. D. Peden are interested. They decided to organize as a State instead of a national bank.

Lamar, Miss.—The First National Bank has commenced business with capital of $50,000.

Lancaster, S. C.—The People's Loan & Savings Bank, capital stock $25,000, has been chartered by John B. Erwin, T. K. Cunningham, H. J. Gregory and others. This is the bank reported last week as being organized by Mr. Erwin.

Malvern, Ark.—O. M. Wilson, H. A. Butler, W. H. Cooper and others have organized the Bank of Malvern, capital $25,000. It is a State bank.

McGregor, Texas.—The First National Bank, capital stock $50,000, has been organized with A. J. Sewell as president; W. Goodrich Jones, vice-president, and C. F. Smith, cashier.

McGregor, Texas.—The First National Bank has been organized and will erect a bank building at once.

Mossy Creek, Tenn.—Knoxville parties are reported as organizing the bank reported last week.

Pendleton, S. C.—The Bank of Pendleton has been organized with M. M. Hunter as president, and J. J. Sitton, cashier.

Quincy, Fla.—The bank lately mentioned as to be started will commence business August 1. It will be a State bank.

Savannah, Ga.—The name of the dime savings bank previously mentioned as being organized is the Chatham Savings Bank. R. D. Guerard will probably be president. Business will commence August 1.

Stephenville, Texas.—Fort Worth parties contemplate organizing a national bank.

Walton, Ky.—The Walton Deposit Bank has been organized with D. B. Allen, of Napoleon, as president, and Robert Green, cashier.

BRICK AND TILE WORKS—DENISON, TEX., June 25, 1889.—The machinery consisting of brick and tile machine, crushers, pug mill, elevator, boiler, engine, pulleys and line shaft has been ordered and we expect to have it in operation in 10 days or 2 weeks. The gauranteed capacity of the plant is 40,000 standard brick in 10 hours. At the start we will dry our brick on the yard under sheds, and burn in the old fashioned kilns. We expect soon to put in our artificial dryer and want to get the best and cheapest. Should we put in a steam dryer will want a 75 horse-power boiler. Our business will be carried on under the name of the Denison Steam Pressed Brick Works, and the firm wil be composed of myself, E. Joe Perry and P. H. Tobin. We have a contract for 3,000,000 to start in with, and there will be contracts let within the next six months for 6,000,000 to 10,000,000 more, which we hope to secure.

JAS. R. MARTIN.

ORANGE GROVES TO BE IRRIGATED—CITRA, FLA., June 27, 1889.—We intend to put a system of irrigation in our orange grove. To experiment with we are going to pipe 20 acres in shape, 1,320x660 feet. We propose putting three lengths of 3-inch pipe the long ways of the grove, with 2-inch hose openings every 200 feet. The main 5-inch pipe will cross the short way of the grove about half way. We do not know exactly what water supply we will need, as we have no one's experience to go by, so to be certain we will want a steam pump and boiler with a capital from 200 to 500 gallons of water per minute. We will also want about 250 feet best 2-inch hose and couplings, etc., necessary to complete above system.

BORLAND BROS.

CONTRACTED TO BUILD CHARCOAL IRON FURNACE—COLUMBUS, O., June 28, 1889.—We have contracted with the Fort Payne Coal & Iron Co., of Fort Payne, Ala., for all the machinery for their sewer-pipe and fire-brick plant complete, and are to furnish the same company their engine, boiler, cupola, shafting and pulleys for their stove foundry. Have also contracted with the Fort Payne Furnace Co. for an 80-ton furnace plant complete. We are in the market for two steam tank pumps, 18-inch steam cylinder, 12-inch water cylinder by 24-inch stroke, two steam boiler feed pumps, 10-inch steam cylinders, 6-inch water cylinder by 12-inch stroke, or duplex pumps of an equal capacity. We will also want two heaters and water purifiers each for 350 to 400 horse-power engines.

ALEX. K. RARIG & CO.

WILL ENLARGE LUMBER MILLS—NORFOLK, VA., June 26, 1889.—We have purchased the Hostetter Mills at Atlantic City, Va., and will put in two 60-inch by 16 feet steel tubular boilers, saw husk, edger, live rolls, trimmer, log turner, carriage, truck, assorter, and three dry kilns, sheds for storing lumber, etc. FURMAN & MCNEAL.

BUILDING CARRIAGE FACTORY—GIRARD, ALA., June 29, 1889.—I am erecting a large first-class three-story brick carriage shop in this place, for which I shall want engine, boilers, wood and iron-working machinery and such other tools as are used in the business. WM. A. MORTIN.

A SYNDICATE of Northern and English capitalists have secured option on two phosphate mining plants and 4,000 acres of land in South Carolina for over $300,000, and are, it is said, trying to secure other phosphate properties.

WALDRON & SPROUT, Muncy, Pa., want information as to when the principal fairs are to be held in the South this fall.

MACHINERY WANTED.

If you desire to purchase machinery of any kind consult our advertising columns, and if you cannot find just what you wish, send us particulars as to the kind of machinery needed. We will make your wants known free of cost, and in this way secure the attention of machinery manufacturers throughout the country. You will thus get all information desired as to prices, etc.

Bell.—J. Alexander Preston, president Board of Fire Commissioners, Baltimore, Md., will receive proposals until July 9 for a new bell to replace the one now in the dome of the City Hall. The proposals are to include taking down the old bell, putting up the new one, also an allowance for old bell.

Boiler, Engine, &c.—William A. Martin, Girard, Ala., wants boiler, engine, wood and iron-working machinery and tools for carriage factory.

Boiler and Engine.—W. S. Woolton, Scottsburg, Va., want a second-hand boiler and engine, 4, 6 or 8 horse-power.

Bottles and Cases.—Jones & Miller, Cartersville, Ga., want to buy bottles and cases for bottling works.

Canning Machinery.—J. C Hill, Greenwood, S. C., wants to purchase machinery for a canning factory.

Cars.—The Cameron Hill & Hotel Park Street Railroad Co., Chattanooga, Tenn., will soon want to buy cars.

Cars, Locomotives, &c.—C. H. Plummer, East Saginaw, Mich., dealer in lumber, wants prices on cars, locomotives, etc.

Compress.—Lyndon & Colley, Washington, Ga., contemplate erecting a cotton compress and will probably soon want machinery.

Corn Machine.—Machinery for a roller corn-meal mill with capacity of from 20 to 25 bushels hourly is wanted by Jeremiah Stover, Manassas, Va.

Corn Mill and Gin.—The Fisher Gin & Mill Co., Fisher, Texas, want a 30 horse-power engine and boiler, a set of 26-inch French burr stones, platform scales, 70-saw gin with feeder and condenser, steam press, suction delivery, etc.

Corn Mill and Gin, &c.—Yates & Carson, Ringgold, Ga., want a corn mill and cotton gin and a planer.

Cotton Elevator.—J. H. Dadas & Co., Cedartown, Ga., want two cotton elevators or exhaust fans for lifting cotton from wagons to gin.

Cotton Mill.—J. E. Hughes, Andalusia, Ala., will purchase machinery for a cotton mill.

Dryer.—J. R. Martin, Denison, Texas, wants best artificial dryer for brick works.

Elevator.—The Morehead Banking Co., Durham, N. C., will want elevator for tobacco warehouse to be built.

Flour Machinery.—Johnson, Kirkpatrick & Co., Lebanon, Texas, want two double roller mills 6x20, 2 scalpers, flour packer, bran packer, pulleys and bolting cloth.

Flour Mill.—John L. Toliver, Manchester, Tenn., wants prices on machinery for a roller flour mill of 40 barrels daily capacity, with and without power. It is to be a custom and merchant mill on the shortest system possible.

Furniture Machinery.—W. F. Repass, Knoxville, Tenn., wants estimates on outfit of machinery for furniture factory. Full particulars on application. Address 601 Grand avenue.

Gang-edger.—Steele & Ledbetter, Rockingham, N. C., want estimates at once on a complete gang-edger with two saws.

Gas Well.—The McMinnville Natural Gas & Oil Co., McMinnville, Tenn., want bids for sinking a gas well from 1,500 to 2,000 feet.

Handle Machinery.—C. R. Robinson, Union, S. C., wants to purchase machinery for manufacturing hoe, spade, fork and rake handles, grass and grain cradle swaths, etc.

Heaters and Purifiers.—Alexander K. Rarig & Co., Columbus, O., want 2 heaters and purifiers each for 350 to 400 horse-power engines.

Ice Machinery.—The Port Gibson Oil Works, Port Gibson, Miss., want the address of manufacturers of ice machinery.

Iron Fence.—New bids for iron fencing for the Capital grounds at Austin, Texas, are invited by the Capital board.

Lathe.—The Winchester Cob Pipe Co., Winchester, Ky., want to know if there is an automatic lathe made for making cob and plain wood pipes.

Lathe, &c.—J. H. Woody, Asheville, N. C., wants quotations on engine lathe 22 inches swing, 15 inches traverse and 12 feet long, shaping machine, emory stand, etc.

Lathes.—Wrenn, Whitehurst & Co., Norfolk, Va., want bottom figures on lathes 20, 22 and 24 inches swing and 7 to 8 feet between centers.

Mining Machinery.—L. T. MacGill, Jr., Frederick, Md., will want machinery for mining asbestos, ochre, etc.

Ore Washer, &c.—W. L. Hickman & Co., Cedartown, Ga., want to purchase an ore washer for manganese which will save ore smaller than cherry size, also a revolving screen and some wire gauze.

Planer.—Wedgeworth & Strange, Red Hill, Ala., want to purchase a planer for lumber mill.

Planing Machinery.—S. D. Poarch, of Dalton, Ga., wants machinery for a planing mill to be built at Madisonville, Tenn.

Pulp Mill Machinery.—Waller P. Huff & Co., Roanoke, Va., want information as to where machinery for pulp mill can be purchased.

Pump, Boiler and Hose.—Borland Bros., Citra, Fla., want a pump with capacity of 200 to 500 gallons per minute, boiler and about 250 feet best 2-inch hose with couplings.

Pumps.—Alexander K. Rarig & Co., Columbus, O., want two steam tank pumps, 18-inch steam cylinder, 12-inch water cylinder and 24-inch stroke, and two steam boiler feed pumps, 10-inch steam cylinder, 6-inch water cylinder and 12-inch stroke.

Rails and Cars.—R. E. Steiner, Greenville, Ala., wants 2,000 feet T rails, one open car, one closed car and one flat car for street railroad.

Rails, Cars, &c.—R. L. Bennett, Tallahassee, Fla., wants quotations on rails, passenger cars, open platform freight cars, harness, etc., for street railroad.

Rails, Engines and Cars.—E. J. Payn, Little Rock, Ark., wants 10 to 12 miles of iron or steel 24 to 32-pound rails, new or second-hand, with everything to make same complete, a light switch engine and a few cars. Full particulars on application.

Rails, Locomotives and Cars.—Samuel Tuggle, Sulphur Rock, Ark., wants prices on light rails, light locomotives and passenger cars for street railroad.

Reversible Gear.—The Milburn Gin & Machine Co., Memphis, Tenn., want to know who make a reversible gear for driving elevators by means of electricity.

Safe, &c.—The Bank of Lancaster, Lancaster, S. C., want bank fixtures, safe, etc.

Saw Mill and Gin.—J. E. Hughes, Andalusia, Ala., wants machinery for a saw mill and cotton gin.

Spoke, Hub and Felloe Machinery.—J. W. Penn, Attalla, Ala., wants prices on engine and all machinery necessary to start a spoke, hub and felloe factory.

Spoke Lathes.—Beck & Gardner, Union City, Tenn., want spoke lathes.

Tannery.—T. S. Plowman, Talladega, Ala., wants machinery for tannery.

Twine Machinery.—W. Z. Thomson, Georgetown, Ky., wants information as to where machinery, either new or second-hand, for twine factory can be purchased.

Water Works.—A. B. Carr, Bryan, Texas, will receive until July 22 bids for building water works. Bids will be received including wells or on works and wells separately.

Water Works and Sewerage System.—Proposals for building water works and a sewerage system at Eureka Springs, Ark., are wanted. Address J. T. Spring.

Well Machinery.—Jennings & Fryer, Clayton, Ala., want to buy an outfit for sinking wells.

Wood-working Machinery, &c.—The Lancaster Manufacturing Co., Lancaster, S. C., want 35 horse-power boiler, 25 horse-power engine and wood-working machinery.

HETHERINGTON & NASON,

Manufacturers and Dealers in Supplies for

Boiler Makers, Machinists, Railroads, Steam and Gas Fitters

Boiler Plate and Tank Iron, Lap-Welded Pipe and Boiler Tubes, Boiler and Sheet Iron Rivets, Steam Brass Goods and Engine Trimmings, Iron Valves and Fittings. Pipe Workers' and Machinists' Tools. Wood and Iron Pulleys. Belting, Hose and Packing. SEWER PIPE, FIRE BRICK and CLAY.

405 and 407 Elm Street, Dallas, Texas.

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ARCHITECTS and Mill ENGINEERS
PROVIDENCE, R. I. Plans, Specifications and Estimates furnished for Cotton and Woolen Mills.

LOCKWOOD, GREENE & CO.
MILL ENGINEERS,
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PLANS AND SPECIFICATIONS FURNISHED FOR THE CONSTRUCTION EQUIPMENT AND ORGANIZATION OF COTTON AND WOOLEN MILLS.


JONES & MACK
Formerly JONES & ROGERS,
MECHANICAL ENGINEERS,
Designers of Standard and special Machinery. Drawing of any description.
BLUE PRINTING.
Write for estimates on what you want.
We never sleep. 5 West 4th St., CINCINNATI, O.

Baltimore Stock Exchange Quotations.

Reported by ALEXANDER BROWN & SONS, Bankers, Baltimore.

BALTIMORE, July 3, 1889.

	BID.	ASKED.
Virginia 3's, new	67	68
Virginia Consol Coupons, N. F.	17	..
N. Carolina 4's	96	98
Atlanta & Charlotte	..	91
Wil., Col. & Aug. 6's	118	..
Ohio & M. 2d	124	..
Atlanta & Char. 1st 7's	119½	..
Atlanta & Char. income 6's	..	107
Col. & Green. 1st, 6's	104	107
Va. Midland, 2d, 6's	118	..
Va. Midland, 3d, 6's	..	110
Va. Midland, 4th, 3-6-5	..	91½
Va. Midland, 5th, 5's	99	99½
Char., C. & Aug. 1st, 7's	109½	111½
Ga., Car. & North. Ry. Co. 5. c. bonds	100½	100½
Ga. Pacific 1st, 6's	112½	113
Ga. Pacific 2d	83	..
Cape Fear & Y. Valley 6's, A	104½	105
Cape Fear & Y. Valley 6's, B	101	102
Consolidated Gas Stock	45	45½
Consolidated Gas Bonds 6's	112	..
Canton Co.	46	55

ALEXANDER BROWN & SONS report sterling exchange: 4.87 for 60 days, and 4.88½ for short sight; commercial bills 4.85@4.85½. Francs 5.16¾ for bankers' 60 days, and 5.14¾ for short sight; commercial 5.19¾. Reichmarks bankers' commercial 94⅝@95. Guilders bankers' commercial 40@40¼.

MINERS' LAMPS



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RICHMOND, VA.
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PILE DRIVERS.
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on Great Britain and Ireland, France, Germany, Holland, British West Indies and other foreign points.
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Bankers & Brokers,
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Investment and Miscellaneous Securities a specialty, and large lines handled. Exceptional facilities for dealings in all classes of Southern Bonds. Loans on Collateral Securities negotiated. Quotations and information furnished on application, and correspondence invited.

WATER WORKS CONTEMPLATED—NEWNAN, GA., June 26, 1889.—Our city will apply to next general assembly for amendment to her charter, providing bonds for the erection of water works. Legislature meets 1st Wednesday in July, (next week). In the early fall we will know what we will do. Mr. M. F. Cole is at the head of company to put in electric plant, and possibly it will soon be done. J. S. POWELL.

TO BUILD FLOUR MILL—MANCHESTER, TENN., June 29, 1889.—There is now under way of organization an association for the purpose of erecting a 40-barrel roller process flouring mill. It is to be a custom and merchant mill combined, therefore we want the shortest and best system possible to make merchantable flour. We want prices on such an outfit, both with and without good steam power. JOHN L. TOLIVAR.

LOUISVILLE TO EXTEND SEWERAGE SYSTEM—LOUISVILLE, KY., June 29, 1889—The city of Louisville proposes to construct new sewers in connection with those already built. The work will be let out by contract. CHARLES D. JACOB, Mayor.

WILL BUILD ELECTRICAL RAILROAD—NASHVILLE, TENN., June 29, 1889.—The city granted to City Electric Railway right over streets on yesterday. The company will proceed at once to build and equip five miles or thereabouts of road.
ISAAC T. RHEA.

CANNING FACTORY FOR DENISON—DENISON, TEXAS, June 25, 1889.—The Denison Canning Co. organized to-day. Capital stock as filed by charter $100,000 President is T. V. Benson; Vice-president, A. R. Collins; Secretary, Russel Legate; Treasurer, Milton H. French. Col. M H French, general manager Denison Land & Investment Co., donated location for factory. Work will commence on building as soon as plans and specifications can be prepared. DENISON LAND & INVESTMENT CO.

HORSESHOE NAIL

MACHINERY

For Sale at a Bargain,

TO CLOSE THE BUSINESS.

A SMALL INVESTMENT WITH A LARGE RETURN.

$2,500

Will purchase all the Machinery and Tools necessary for making ¼ ton of Horse Nails per day by the cheapest process in use.

These Nails can be sold at a good profit over and above cost of manufacture.

Combining this with some other manufacturing business where rent, power, office, traveling and other expenses will be at the minimum, it should pay very handsomely on the investment.

Machinery can be inspected at any time, and samples of the nails made with it can be seen.

—ALSO—

Second-Hand Machinery

ALL IN GOOD ORDER.

FOR SALE AT LESS THAN VALUE.

1 Planer—Jones & Lamson's make, 24x24 inches, 6 feet bed.
1 Planer—New Haven Mfg. Co. make, 18x18 inches, 3¼ feet bed.
1 Engine Lathe—14-inch swing, 4 feet between centers, screw cutting, countershaft, &c.
1 Drill Lathe—12-inch swing, 4 feet bed.
2 Post Drills—adjustable tables.
For terms and further particulars address

C. S. MERSICK & CO.

NEW HAVEN, CONN.

To Manufacturers

Desiring a Staple Article on Royalty or Shop Right. For particulars of the "Landis Patent Steam and Hot Water Radiator" address EZRA F. LANDIS,

LANCASTER, PA.

PROPOSALS.

SEALED PROPOSALS will be received at the office of the City Clerk in this city, until the 15th day of July, 1889, for the construction of certain sewers, hereinafter set forth and described, in accordance with the plans and specifications to be furnished by the City Engineer. All material required, with the exception of pipe, to be furnished by contractor. The city reserving the right to reject any and all bids.

Descrip. Sewer	Cub. Yds	Man Holes.	Cub. Yds
26,200 ft. 24 in } 5,664 ft. 20 in }	37,923.0	34 } 13 }	419.0
3,742 ft. 15 in	7,682.0	14	163.0

R. P. HUGER, Mayor,
ANNISTON, ALA.

SEALED PROPOSALS will be received by the Sewerage Committee of the Board of Aldermen of the City of Raleigh, N. C., at the Mayor's Office of said city, until 3 o'clock P. M., of Monday, July 15, 1889, for constructing the proposed system of pipe sewers for said city—approximate extent twenty-one (21) miles. Copies of the general plans and specifications, forms of proposals and instructions to contractors and any information relative thereto may be obtained from the Chairman or Engineer of the Sewerage Committee. The Committee reserves the right to reject any or all bids. C. G. LATTA, Chairman of Sewerage Committee. J. L. LUDLOW, C. E., Engineer.

U. S. ENGINEER OFFICE, Wilmington, N. C. June 24, 1889.—Sealed Proposals for $80,000 of Stone, Mattresses, &c., in place in dike in Winyaw Bay, S. C., are to be received at this office until 10 A. M. on 24th July, 1889. The attention of bidders is specially invited to Acts of Congress, approved 26th February 1885, and 23d February, 1887, volume 23, page 332, and volume 24, page 414, statutes at large. All information furnished by W. H. BIXBY, Capt. of Engineers.

TULIP STREET CHURCH, M. E. CHURCH SOUTH, Nashville, Tennessee, will build a new church costing about $30,000. It will be two stories, the lower floor to be used for Sunday School purposes. Architects wishing to submit plans, should address Col. JAMES H. YARBROUGH, Chairman of Building Committee, Nashville, Tenn.

EUREKA SPRINGS, ARK., wants system of Water Works, and proposals from contractors will be received for same by Z. B. FREEMAN, President Board of Trade.

SOME ASSOCIATED CAPITAL

WILL RECEIVE

Investment Proposals

from first-class hands (only), in the South. Nothing boomed, watered or already margined, or lacking minute description in business shape will be considered. Name subscribed if correspondence follows.

Address

"INVESTMENT RESEARCH"

Care Manufacturers' Record.

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BOILERS.

41 Second-Hand and 23 New Boilers, 13 Second-Hand and 19 New

ENGINES.

At buyers' prices. Address

CASEY BOILER MFG. CO. Chattanooga, Tenn.

BOILERS, ENGINES,

LIGHT LOCOMOTIVES, RAILS and EQUIPMENT,

Cotton Gins, Saw Mills, Wood-Working Machinery, and Heavy Hardware.

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Corner Market and Cowart Streets,

CHATTANOOGA, TENN.

Cotton and Woolen

MACHINERY.

50 Crompton Fancy Cotton Looms, nearly new, 36 inch reed space, for 12 Harnesses, 4 boxes at one end, 1 at the other.

My Store Houses here have over 2 ACRES of floorage, which is covered with good machinery, including nearly full systems for Cotton and Woolen Mills.

JEREMIAH CLARK,

Lowell, Mass. Office, 63 Dutton St.

FOR SALE.

DARLINGTON LAND IMPROVEMENT CO.

Lots within the incorporate limits of the town of Darlington, and fine farming lands adjacent, for sale. Railroad facilities good. Fine graded school in town. For further particulars apply to J. J. WARD, President and Treasurer of Darlington Land Improvement Co., Darlington, S. C.

Machinery Wanted.

We want to buy latest improved Machine for making Spiral or Cone Springs used for all Spiral Spring Beds. LOTTMAN BROS., Houston, Tex.

WANTS.

A COMPETENT MAN is now open for an engagement as Superintendent of Cotton Mill. Has large practical experience. Is strictly temperate, and will guarantee to get as large a production as can be had from the machinery, and at as small cost as any mill. Address "EXPERIENCE," care Manufacturers' Record.

WANTED.—A fisst-class laundry man. Must understand every part of the business thoroughly. Address, A. S. EMERSON, Charleston, S. C.

WANTED.—Foreman in plow factory. Address C. A. CHARLTON, Statesville, N. C.

WANTED.—Foreman for our foundry. Must be a first-class man in every particular, competent to superintend making car wheels and general car castings. Answer with reference. The Elliott Car Co., Gadsden, Ala.

WANTED.—First-Class and Experienced Laundry Man to take charge of and operate steam laundry in Rome, Ga., city of fifteen thousand inhabitants, with no like institution in opposition. For particulars address GEO. H. MAGRUDER, Box No 349, Rome, Ga.

WANTED.—A competent founder to take charge two (2) blast furnaces. None but experienced men need apply. Address EUREKA CO., Oxmoor, Ala.

WILMINGTON,

NORTH CAROLINA.

This pleasant and growing city invites enterprising citizens and capitalists from all parts of the civilized world.

$150,000 Freedom from Municipal Taxation **$150 000**

Splendid Opening for Men of Push and Energy.

The City of Wilmington has made an appropriation of $150,000 for the purpose of encouraging manufacturing.

ADVANTAGES OFFERED.

Climate favors work the entire year.
Labor abundant and cheap, living economical.
Freight rates are low by rail to interior points. Shipping rates by steamships and vessels low to all parts of the world.

NO BETTER POINT FOR PROFITABLE INVESTMENT.

We have the raw material in abundance.

Facts About Wilmington.

A seaport city of 25,000 population. An important naval store, cotton and lumber market.
Extensive shipping interests. A secure, fresh water harbor Depth of water on bar 18 feet at mean high water; under government supervision, being continually deepened.
Excellent terminal facilities. Four railroads in operation, two in process of construction.
Surrounded by attractive summer resorts. Adjacent territory especially adapted to trucking, peach growing, vineyards and rice culture. Drainage excellent.
Health and climate unsurpassed. An all-the-year-round resort—"THE LONG BRANCH OF THE SOUTH."
Excellent schools and churches of all denominations. A cordial welcome extended to all good citizens and men of push and intelligence.
Three banks, with ample banking facilities.
Among the manufacturing enterprises now in operation are numbered: *Cotton, Pine Fibre, Fertilizer, Wood Working and Ice Factories; Rice, Flour and Planing Mills; Foundry, Machine Shops, Gas, Electric Light Plants, Cotton Compresses, Creosoted Lumber, Car and Water Works.*
We invite all to come and see, and on the spot to judge for themselves. Wilmington offers excellent hotel accommodations, and a committee of its Chamber of Industry will extend to strangers seeking home and investment cordial greeting and attention.
Persons who may desire fuller information can obtain it by addressing

The Chamber of Industry, Wilmington, N. C.

RADFORD, VA.

Town Lots, Mineral Timber and Farm Lands.

We have many large and small tracts.

Iron Ore, Coal, Glass, Sand, Marble, Building Stone, and Several Mineral Springs, of Wonderful Curative Properties.

The best of farming and grazing lands. No malaria. No mosquitoes. Salubrious climate. Gorgeous scenery. Water power unlimited. Factory sites donated. Property at first hands, so get in on "rock bottom." Write to, or call on

BARCLAY & CROCKETT,

The leading Real Estate Agents of Southwestern Virginia, RADFORD, VIRGINIA.

FOR SALE.—1,500 Acres of Fine

Timber, Mineral & Grazing Lands

ON 20 SEPTEMBER, 1889.

Terms of sale and further particulars apply to or address CHAS. C. PATTON, Brevard, Transylvania County, N. C.

FOR SALE.

Soap, Candle & Oil Works, Plant and Business.

Established 1848.

Warehouse, Houses and Outfit Complete, all in good repair.

A Fine Opportunity to secure a splendid paying and well established business in one of the best located cities in the South.

Address, for full particulars,

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For Sale.

50 OR MORE

BRIDESBURG

4 SHUTTLE, 10 TREDDLE

LOOMS.

now running, and in first-class order, at Arlington Mills, Wilmington, Del. Apply to John Greer, Manager Arlington Mills Mfg. Co., Wilmington, Del.

FLORENCE, ALABAMA.

Investments in Stocks, Bonds and Real Estate. Correspondence solicited. Information gladly given. Address

DILLARD & WALTON,
Florence, Alabama.

FOR SALE.

One 20-in. Sheet Train, rolls 48 in and 36 in. long.

One 15-in. Bar Train, rolls for 1⅛ to 2⅜ in. round and square, and flats to 5 in.

One 8-in. Three-High Guide Train, rolls for 3-16 to ⅝ in. round and square, ovals, half-ovals, &c.

One Pair Shears for cutting plate iron, will cut ¾-in. cold.

All in good order. Address

JOHN PECK,
HAVERSTRAW, N. Y.

FOR SALE.

12-ton ice plant (Pictet) all complete and and in first-class order, can be had at one-third cost, and been in use only one year. For particulars inquire of

SO. FLORIDA FOUNDRY & MACHINE CO.,
ORLANDO, FLA.

BARGAINS.

Second Hand Machinery, Good Condition.

L. F. SEYFERT.

437, 439 and 441 N. Third Street, Philadelphia, Pa.

1 100 h.p. Horizontal Engine, cyl. 18"x24".
1 40 h.p. High-Speed Engine, cylinder 10½"x16".
1 20 h.p. Stokes & Parrish Elevator Engine.
1 15 h.p. New York Safety Engine.
20 Engines, 4 to 30 h.p., Hor. and Ver., best makes.
3 Portable Hoisting Engines, 6 to 15 h.p.
1 6 h.p. Frick Portable Engine and Boiler.
Rumblers, Foundry Ladles, Jacket Kettles, etc.
1 45 h.p. Erie, R. T. Boiler, 48"x16', 52 3" tubes.
1 18 h.p. R. T. Boiler, 36"x9', 26 3" tubes.
1 35 h.p. Locomotive Boiler.
50 Upright Steel Tubular Boilers; new; 4-27 h.p.; cheap
1 Phillips Engine Lathe, 50"x14'.
1 Engine Lathe, 36"x20'.
1 Engine Lathe, 36"x13'.
1 Bishop Engine Lathe, 24"x20'
30 Screw-cutting and Speed Lathes, 10-20 swing x4-10.
1 Whitcomb & Co. Planer, 24"x24"x7'6".
1 Bishop Planer, 31"x24"x7½'. 3 18"x18"x3'.
1 Lodge, Davis & Co. 25" Drill Press, B. G. and P. F.
6 Lodge, Davis & Co. 21" Drill Presses.
13 Drill Presses, from 10" to 25" swing, best makes.
1 Combined Punch and Shear, ¾-in. hole in ⅝-in iron.
1 24" Schenck Planer, Moulder and Matcher.
1 24 Goodell & Walters Double Surfacer, endless bed.
6 Pony Planers and Surfacers, all sizes.
2 Muley Saws, complete. 2 Upright Moulders.
1 Worthington Duplex Steam Pump cap. 150 gal. min.
Shafting, Pulleys, Hangers, Couplings, Belting, etc.
Also full line of new machinery. Estimates furnished on application for Steam Plants and Mill Outfits. Please write for prices.

SECOND-HAND MACHINERY.

1 Iron Planer, planes 22 feet, 48x42, double heads.
1 " " " 6 " 26x24.
1 " " " 4 " 22x20 in.
1 " " " 3 " 19x16, New Haven.
and other sizes also.
1 Engine Lathe, 16 feet bed, 23 inch swing.
1 " " 16 " " 24 " " friction feed
1 " " 11 " " 19 " "
1 " " 8 " " 15 " "
and various other sizes.
1 20 inch Plain Drilling Machine.
1 25 " " " "
1 28 B. G. & S. F. " "
1 9 in. Hewes & Phillips Shaping Machine.
1 No. 3 Brown & Sharp Screw Machine.
1 14 inch Freeland Slotter.
1 Small 8 inch swing Foot Lathe.
1 No. 3 Parker Press. 1 Arch Press for forming.
Send for list Second-hand tools.

NEW YORK MACHINERY DEPOT,
Brooklyn Bridge Store, 16, New York.

Second-hand Machinery in Good Order FOR SALE CHEAP.

Engine Lathes—86 in. x 20 ft.; 60 in. x 17 ft.; 42 in. x 12 ft.; 32 in. x 12 ft.; 29 in. x 15 ft.; 24 in. x 10 ft.; 22 in. x 8, 10 and 12 ft.; 20 in. x 8 and 14 ft.; 15 in. x 6 and 8 ft.; 1 each 24 in. x 20 in. and 24 ft.; 24 in. x 12 ft.; 24 in. x 15 and 16 ft.; 18 in. x 10 ft.; 20 in. x 10 ft.; 20 in. x 12 ft.; 1 each 16 in. x 6, 8 and 10 ft.; 6 each 14 in. x 6 ft.; 1 12 in. x 5 ft.; 2 each 11 in. x 4 ft. and 5 ft.; 1-10 in. x 3¼ ft., foot power.
4 Brass Turret Lathes, assorted sizes.
1 each Planer, 24 in. x 24 in. x 5 and 8 ft.
1 " " 30 in. x 30 in. x 8 ft.
1 Planer, 54 in. x 52 in. x 12 ft. 50 in. x 50 in. x 17 ft.
1 " 40 in. x 40 in. x 14 ft.
1 " 42 in. x 42 in. x 10 and 12 ft.
1 " 22 in. x 20 in. x 4 and 5 ft.
1 " 16 in. x 16 in. x 3 ft.
1 Screw Planer, 18 in. x 3 ft.
1 Engine Lathe, 22x22 feet, good order. Niles.
1 12" Trav. H'd Shaper, 2 tables, almost new. Betts.
1 Schlencker Bolt Cutter, ⅜ to 3 inches.
1 8-foot Vertical B. & T. Mill. Niles.
1 48-inch Gear Cutter. Gould & Eberhart.
1 24x18x4-foot Planer. Ames.
1 22-20x5-foot Planer. Putnam.
1 Drop Hammer, 75 pounds.
1 48 in. Radial Drill.
1 Shaper each 6, 10, 12, 15, 20, 24 and 30 in. strike.
1 Crank Planer. 6 Lincoln Pat. No. 2 Millers.
1 Universal Miller. Brown & Sharpe.
1 each 2, 3, 4 and 6 Spindle Gang Drill.
1 each Nos. 1, 3, 4 and 5 Screw Machines.
1 No. 9 Screw Machine. Jones & Lawson.
1 each 40 & 60 lb. Vertical Hammers.
1 No. 53 Ferracute Press. 1 Nut-Facing Machine.
1 No. 2½ Fowler Press.
10 Foot Presses, assorted. 8 Power Presses, assorted
12 Punching and Shearing Machines, assorted.
2 Return Tubular Boilers, 35 H.-P.
1 Bolt Cutter, each ¾ in. to 1 in., and ⅞ in. to 2 in.
2 No. 1 Hand Millers. Pratt & Whitney.
1 Horizontal Engine each 25 and 45 H.-P.
1 Horizontal Boring Machine, 36 in. x 6 ft.
1 each 8 and 13-inch Slotters. Correspondence
1 Power Mortising Machine. solicited.
Also full line of New Machinery.

PRENTISS TOOL AND SUPPLY CO.,
P. O. Box 3369. No 42 Dey St., New York City.
Will remove to 115 Liberty street about May 1st.

FOR SALE!

1 Porter Locomotive, 10x16, with Tender, 38" gage.
1 " " 9x14, " " 36" "
1 Wyoming Valley Saddle Tank, 10x16 cylinder, 4' 8½" gage (a bargain).
25 36" gage Dump Cars.
25 38" " " "
1 12 H. P. Westinghouse Engine.
1 No 2 U. S. Dynamo.
1 10 H. P. Hoisting Engine and Boiler,
1 Double 8x10 " " no Boiler
For particulars apply to

J. C. SAXTON,
52 BROADWAY, NEW YORK

FOR SALE.

One 100-Barrel ROLLER PROCESS

Flour and Grist Mill.

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Eastern Lumber Markets.

[Special correspondence MANUFACTURERS' RECORD.]

NEW YORK, July 2, 1889

The general situation in the lumber trade has not improved very much during the past week. The threatened scarcity has disappeared. Manufacturers, jobbers and commission men and retailers have been hurrying forward stocks as fast as rail facilities would allow, and already there are stocks which threaten an accumulation in all Eastern markets. This accumulation has rather weakened than strengthened prices. The demand, of course, is still heavy for every kind of lumber on the list. There is a probability of an advance in two or three directions. For instance, the supply of Eastern spruce on which this market relies considerably is not likely to be up to the average. Then again, the supply of hemlock from Pennsylvania will probably be considerably below the usual supply. Others are interested in maintaining high prices, and most of them are enlarging on this threat ened scarcity. The effect has not been to crowd small buyers into the market faster than usual. So far there has been no actual advance and no perceptible scarcity. In fact, our yards all show a good supply of lumber, and we believe that everything will work to the advantage of the consumer. Of course a vast amount of Southern lumber is coming in. There is additional com plaint about competition. Three months ago we set out with the belief that firm prices would rule for Southern mill products, but here we are already surrounded by a competition which reminds us of the condition of the white pine trade. This condition of competition arises chiefly from those who are careless in the preparation of lumber. Well-prepared stuff is still bringing top prices. Our dealers here still say that better drying and better stock is imperative, and this is a fact. Some few companies, knowing the disgust of buyers with inferior stuff, are taking pains to send to this market first class material in every respect. Off grade North Carolina pine is plentiful, and buyers are hammering it down with more or less success. Every thing here depends upon quality. The urgent demand for North Carolina mill products created a habit of carelessness which has caused the shippers a good deal more than the advantage of large sales. The receipts from Georgia and gulf ports continue large. Freights from Mobile are $8 50; Pensacola $8 75; Jacksonville $7.50; Fernandina $7.25; Georgia ports $6.75, excepting Savannah, which is $6.00, and Charlestown $6.25. Norfolk rates are $3. Canal rates from Buffalo and Tonawanda are $2 25.

The New York Lumber Trade Association abopted log inspection rules last week which are deserving of attention by those preparing hardwoods for this market. The rules cover oak, ash, poplar, cherry, maple, birch, beech and walnut. The rules can be had on application to the secretary.

A few large buyers who have been supposing that white ash was as abundant as white pine have suddenly discovered that prices have advanced, and there is a fair demand for 14, 16 and 18-inch stock. The ch ef demand, of course, is for boards.

In regard to poplar, there are quite a number of rumors on the market. Some of these point to a drop in prices, and others seem to point to an advance. We are looking in poplar for something like the disturbance which took place in yellow pine. Outsiders have been crowding yellow pine into this market with a result which every one knows Outsiders have been crowding poplar into this market and the effect has already been to crowd prices down to one or two dollars. Some holders are refusing to follow this decline. Sales of poplar have been made at from $30 to $31, which is $2.50 to $2 below the association price-list. Where will it end? What does it mean?

A good deal of new saw mill and planing mill machinery is coming out. In fact the planing mill men must keep reading to follow up. Some of the machines are invaluable for the economic results they secure. There are new shingle planers which should be looked at by shingle manufacturers.

Walnut took a sudden spurt last week, but it was for inferior stuff. It developed the fact that walnut is scarce A few operators are picking up all the stuff they can buy on their own terms; but if holders of walnut have any very decided views of their own they had better keep their lumber at home Rejects are meeting with best sale During the past week or so there has been a good deal of plain oak picked up. Quartered oak is scarce and high. Good stuff is bringing $50, and from that down to $45. Wide stock is wanted, but narrow stuff is a drug. Strips are in good request and there seems to be no scarcity. The market for cherry is active among the cabinet makers and the manufacturers of fine furniture. Mahogany is also holding its own.

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The South's Great Lumber Interests.

In an interesting article on the lumber interests of the South the New Orleans Times-Democrat says: "It is a subject of importance, because lumber is now the South's greatest resource; and, as it stands to-day, represents more than the total value of all the property of this section. We have, it is true, treated this interest before, but the present occasion justifies, indeed requires, another review of the matter, for it is an eventful epoch in the history of Southern lumber when it has been brought face to face in competition with the Northern product.

We have endeavored to cover the subject fully and exhaustively, to give all the timbers known here, the extent of forests, the purchases of woodlands, the productions of the mills and the prospects ahead for them. We give a very full account of the chief woods of this section and the various uses to which they are applied. They are adapted to every branch of manufacture into which wood enters as the principal constituent. There is nothing made from it anywhere in the world that cannot be made excellently and cheaply from Southern woods. They are equally adapted for building, paving, the manufacture of agricultural implements, furniture, coffins and hollowware, for ship building, car building, railroad ties, masts, staves, barrels, etc. There are more than two hundred varieties, each possessing many valuable qualities. The yellow pine, the cypress, yellow poplar, black walnut, gum, cotton wood, live oak, white oak, hickory, ash, juniper are among the best merchantable woods the world produces, each with its distinct specialty.

The yellow pine is one of the most abundant, cheapest and strongest of known woods. Its size, the large amount of lumber to the acre, the straightness of the trees, which renders sawing so easy, have brought it into extraordinary favor of late years, and its merits are now universally recognized. It has found its way to the front in the North and West, and its superiority for flooring, heavy beams and joists, car timbers and building generally is admitted by all. It is especially adapted for ship building, furnishing in addition to ship timbers, all the naval stores needed—tar, pitch, rosin and turpentine. These are a few of the uses to which this wood can be put, the most abundant of any in the United States, covering a large portion of ten States, and assuring lumber enough for the whole country for more than a century.

Cypress, to be found abundantly in eight of the Southern States, has come into favor since yellow pine and for other uses. Its use was originally confined to the South, and that little of it sent North as an experiment met with no favor there. How great the change has been is evidenced by the fact that the bulk of this wood produced here is now shipped North, the Plaquemines mills selling less than 10 per cent. of their shingles in Louisiana. The cypress has been found especially serviceable in decoration, and wherever a wood is needed that will bear long exposure to water. Oiled or polished, it has become a favorite for the inside decoration of the finest houses in New York. For railroad ties in wet or swampy land, for shingles, for water pipes, for tanks, cisterns, hogsheads, etc., the cypress is a prime favorite and in general use throughout the world.

For a cabinet wood, handsome furniture, etc., the South offers the largest amount of black walnut in the country; and as a supplement to it, the gum, which promises, when some of its bad points are conquered, to become one of the most valuable of cabinet woods. As another substitute for the manufacture of cheap furniture, the Southern States yield an abundance of yellow poplar.

For boxes, as a covering for grain cars and barges and for varied uses, the cottonwood, abundant throughout the Mississippi Valley, is in high favor just at present and likely to grow even more popular.

Of staves, the white oak forests of Louisiana, Arkansas, Tennessee and Kentucky promise an inexhaustible supply.

The South has besides these live oak for ship-building, magnolia for gun stocks, ash for agricultural implements, juniper for woodenware, and a hundred others. It has a valuable wood for every industry into which wood enters.

It was natural under these circumstances, considering the variety, excellence and quality of the Southern timbers, that there should be a great development of the forest resources of this section, and it is certainly not to be wondered at that the number of establishments and their production should have more than doubled in the last nine years, and that Southern lumber should be shipped North in large quantities. If there is anything to be surprised at, it is that the development has not been more rapid.

That the merits of the Southern timbers are appreciated, and the value of Southern woodlands fully recognized, no one can doubt The yellow pine which was first treated with disdain in the Chicago market as coarse and undesirable; the cypress, for which it was almost impossible to find a market, now sell in large quantities there; and the Northern lumbermen, the men best acquainted with this industry, have shown their recognition of the situation by buying up nearly every acre upon which they could lay their hands. They began making these purchases eight years ago, and they have kept it up ever since, buying in for speculative purposes or to develop them, some 8,000,000 or 10,000,000 acres of government land, and probably as much more from the States and private owners. The large public domain in the South was so rapidly exhausted by this demand that the last Congress was asked to withdraw the public lands from sale, so that some of them could be retained for actual settlers, which was done temporarily in several of the States.

While the purchasers of these lands did not in all cases, bring about their development at once, the very fact that these lumbermen bought them is proof of their confidence in the future.

The bulk of these lands still is, as we said, undeveloped, awaiting the needs of the country. The output of the Southern mills has been doubled, and there has been a still more rapid increase in several of them, notably in those like Arkansas and Texas, which, being nearer to a region deficient in timber and depending on others for its supply, have found a better market for their products. The fact that the manufacturers of the Southwest have secured so large a portion of the trade of the great treeless region of the country is a proof of what energy and activity will do. There is, perhaps, no more significant fact in this connection than the demand for a reduced rate from the white pine districts of the North to the country west of the Mississippi for the avowed purpose of competing with Southern lumber.

But even without this competition, the South must, sooner or later, be depended on to supply a large portion of the lumber needed. The disappearance of the white pine in Michigan and Wisconsin, the advance in the price, and the increased demands of the country must all tend to expedite the development of the Southern woodlands and the production of the Southern mills. When the Western forests are exhausted the country will have to depend on the Pacific Coast and the South. The former is too far removed; while the latter offers all the lumber needed, conveniently situated, and easily shipped. It contains the most heavily wooded portion of the Union and 40 per cent. of its woodlands, being three times as heavily forested, relatively, as the North and West.

Another market for Southern lumber has been found abroad. The shipments to foreign countries have been considerable for some time and are increasing, for the Southern timbers are much in favor The Germans declare that our yellow pine is the best material for paving known; the pine is used also in large quantities in Southern Africa, in the mineral districts, and the tanks in the desert portion of the park continent are of Southern cypress; the staves from which are made the casks wherein the French, Germans and Italians ship their wines, are sent from New Orleans, coming originally from the white oak forests of Tennessee, Arkansas, Georgia, etc; and Southern oak and walnut are sent to France to return here in the form of fine French furniture.

We thus have two fields open to us. Already the lumber trade of towns like Mobile, Pensacola, Pascagoula, Beaumont, Orange and Lake Charles is rapidly increasing. The bad harbors of the Southern coasts have interfered seriously with this trade. The improvement and deepening of Sabine Pass would be a godsend to the lumber region of Southeastern Texas. Lake Charles has asked for the deepening of the Calcasieu river and a deputy collector at that port to facilitate a trade which promises so well; for it is under contract to ship several million feet of lumber to South America—another field that promises much for the Southern lumbermen.

Here is a field especially inviting to Southern lumbermen, offering them a market for millions of feet of lumber and other forest products.

With all these facts before us, and many others that we give elsewhere, the future seem bright and promising indeed for the South's great lumber industry."

A NUMBER of leading manufacturers in Tennessee have issued a call which says:

We, the undersigned citizens of Tennessee, feeling that the present tax enacted by the State on manufacturing enterprises is unjust and injurious, which tax, if continued, will not alone prevent capital coming into our State, but will drive much now here to Alabama and other States where such laws do not exist.

We, therefore, in the interest of Tennessee's present and future well being, call a convention of the citizens of Tennessee to assemble at Iron City, Lawrence County, Tenn., on Wednesday, the 17th day of July, to disscuss the best methods to relieve our State of the unjust, burdensome and outrageous tax.

IT is reported that the Manchester Ship Canal Co., of England, have made a very heavy purchase of wharf and other property at Port Royal, S. C., and the same report says that it is supposed that there will be important developments in the way of new enterprises, shipping facilities, &c.

AND so the good work goes on. Northern capitalists have bought large mineral properties at Graysville, Tenn., where a $500,000 company will operate on a large scale. There seems to be no end to the big enterprises, as well as to the little ones, that daily swell the list of Southern industries and add to the prosperity of this section.

Durham's Health.

DURHAM, N. C., July 1st, 1889.

Editor Manufacturers' Record:

The rate of mortali y is generally considered the criterion by which the healthfulness of a locality is to be judged. The following facts in regard to the health of the town of Durham are compiled from the Second Biennial Report of the North Carolina Board of Health to the General Assembly of North Carolina, session of 1889. The figures refer to the mortality of 1888 only. The calculations are based on an estimated population of 8,000 inhabitants, the last census of the town, spring of 1887, giving a population of 7,700. Of this number probably 3,500 are of the colored people, among whom, owing to their mode of living, there is a larger *pro rata* of both sickness and death, especially in pulmonary troubles.

The health officer's report shows one hundred and twenty three deaths during the year 1888, which gives 15 38 per thousand—far better than most towns show.

Durham is 400 feet above sea level and 150 miles from the coast. Its climate is good, being located between the marshes of the eastern coast of the State on one hand, and the mountain regions of the west on the other side. The surface is undulating, with several prominent elevations in the limits of the town proper, and on the suburbs fine building sites from a hygienic point. This special feature of surface also makes it easily drained. A sanitary policeman visits all premises at least once each week, inspecting back yards, privies, &c.

The water supply is from wells, springs and the Durham Water Company. The wells furnish as pure drinking water as is found in towns generally; some of a limestone, others of a freestone character, according to location. Several fine springs in the town and vicinity.

Freeland's spring, on premises of Capt. J. F. Freeland, furnishes a fine chalybeate water, an analysis of which shows it to be rich in bicarbonate of iron and bicarbonate of magnesia, small quantities of chloride of lime, bicarbonate of lime and sulphate of magnesia, with traces of sulphur and sulphides. This water is furnished on annual tickets at small cost. The Durham Water Co. furnishes water through mains and service pipes from its reservoir six miles from town. The supply is derived from several springs which is impounded.

The surrounding country is hilly and rocky, with sandy surface and clay subsoil. No habitations near. Reservoir closely fenced and whole works guarded. Water rates 25 cents per 1,000 gallons. Average cost per year for family of 6 persons, $6.

Durham has never experienced an epidemic of any disease except, perhaps, measles, nor is there any class of diseases endemic here, that is, originating here on account of its geological position or from local causes, and it would be hard to say what was the prevailing type of disease.

To persons seeking homes, we can confidently recommend Durham for its healthfulness. Any further information in regard to this subject will be cheerfully answered by Dr. N. M. Johnson, health officer, or by the writer,

J. D. ROBERTS, M. D.

WILL START TANNERY-TALLADEGA, ALA., June 28, 1889—We have organized a tannery at this place. Will need machinery.

T. S. PLOWMAN.

J. N. WILSON & BRO., Tracy City, Tenn., wants to learn of markets for red gum timber.

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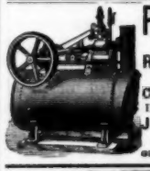
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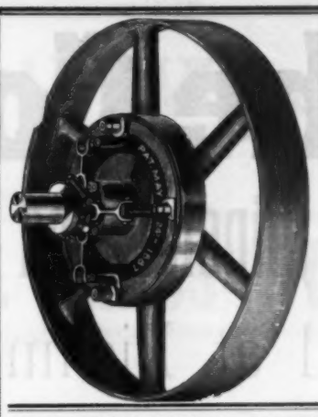
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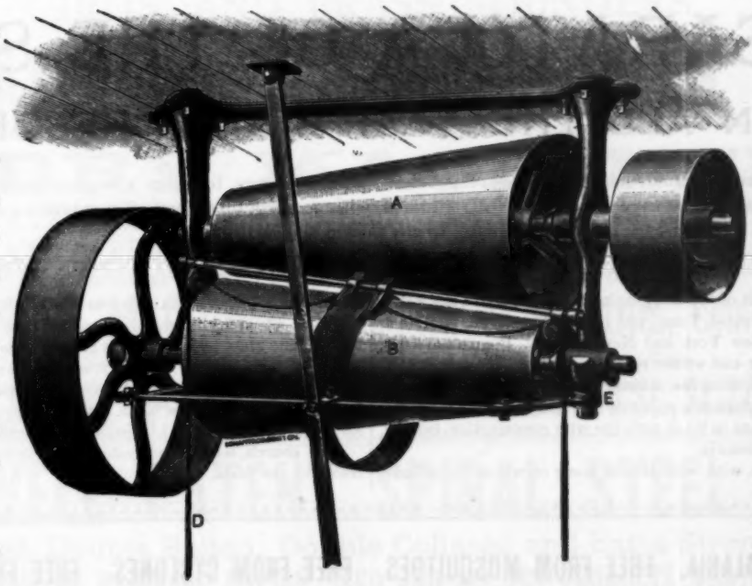
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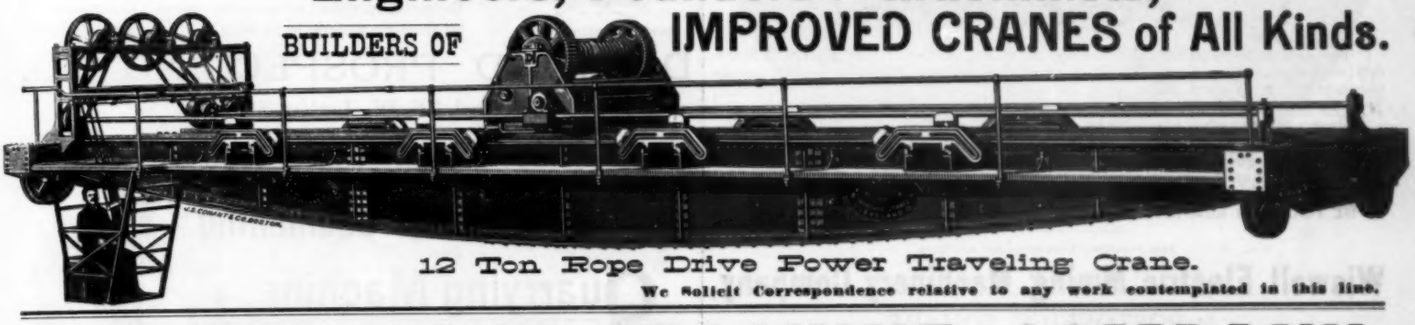
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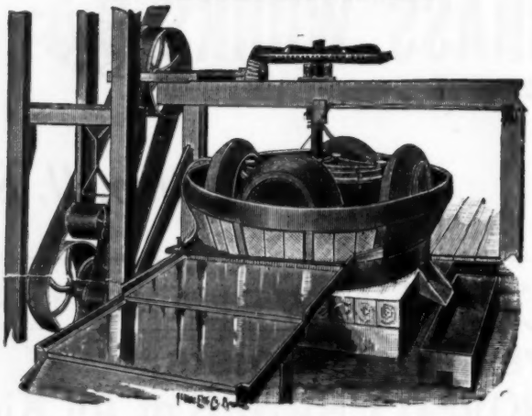
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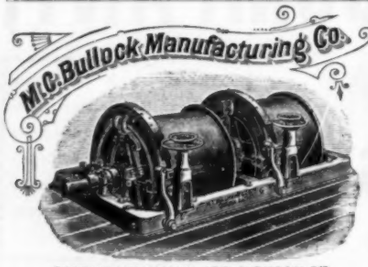
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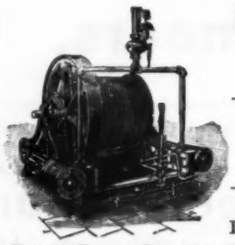
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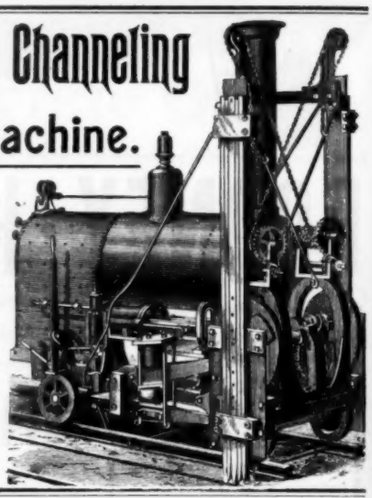
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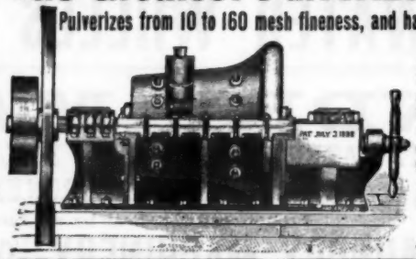
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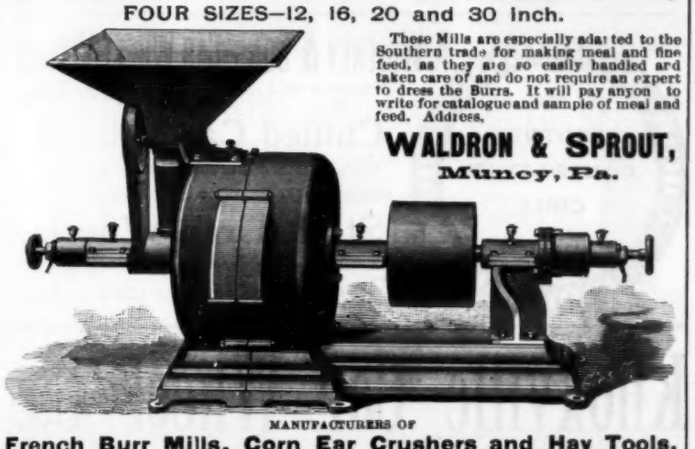
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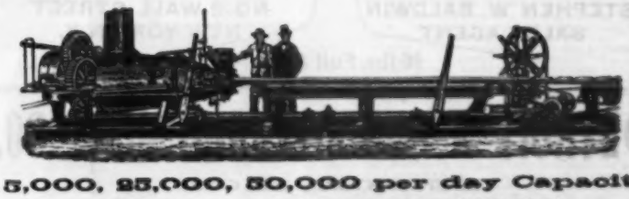
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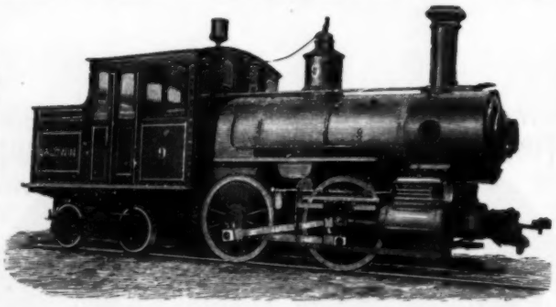
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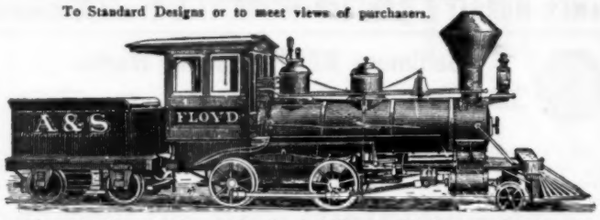
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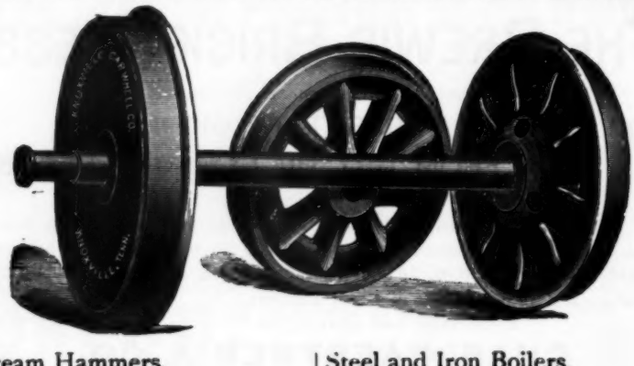
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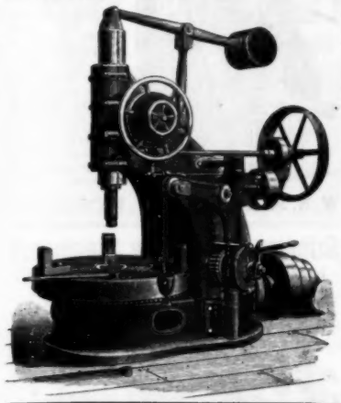
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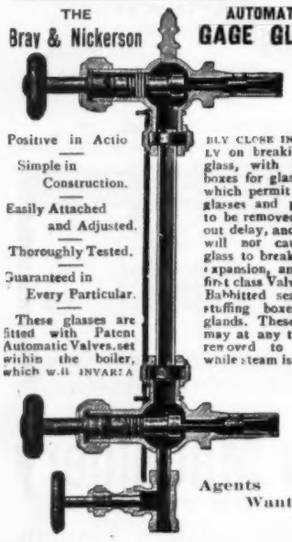
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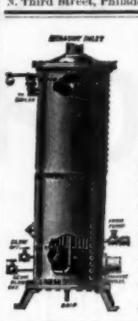
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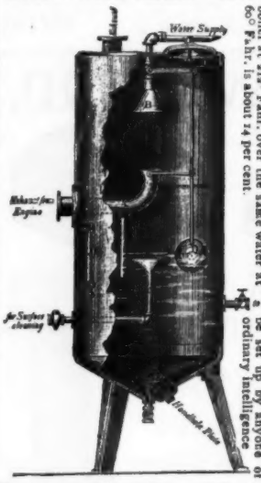
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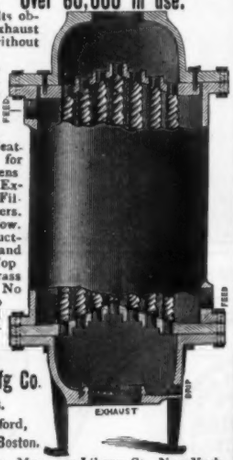
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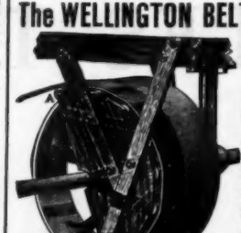

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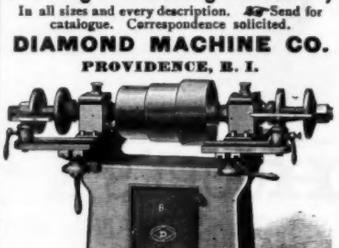
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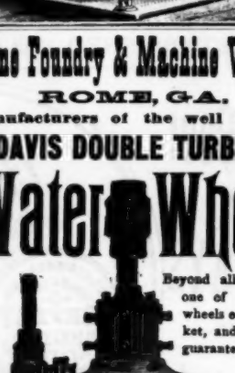
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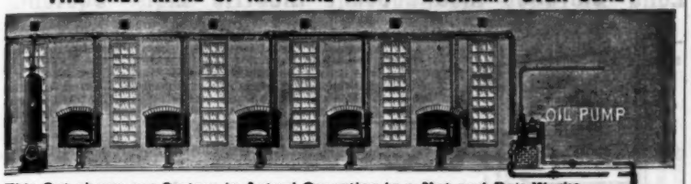
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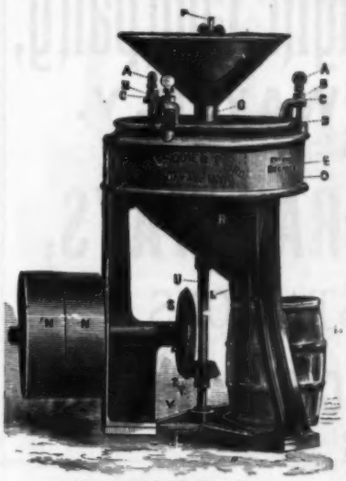
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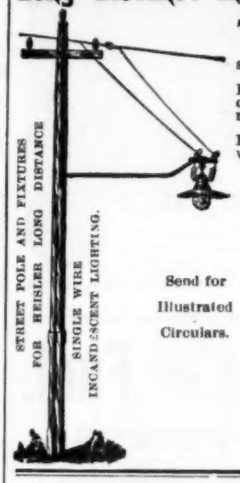
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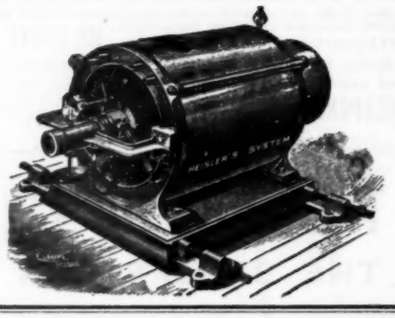
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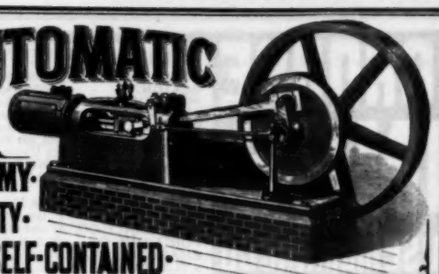
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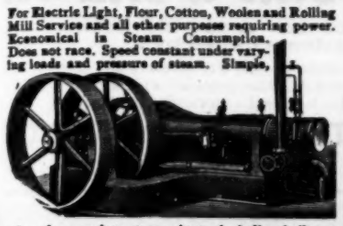


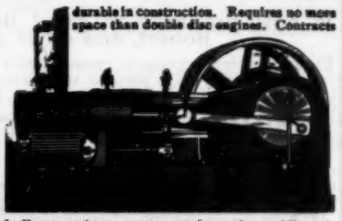
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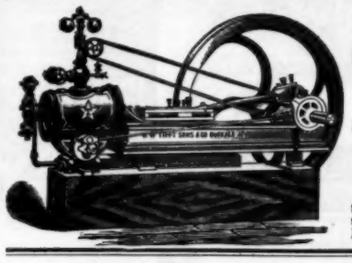




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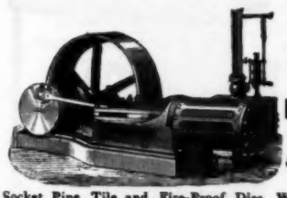
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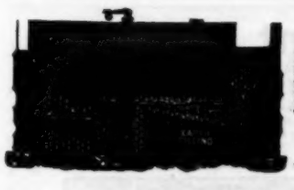
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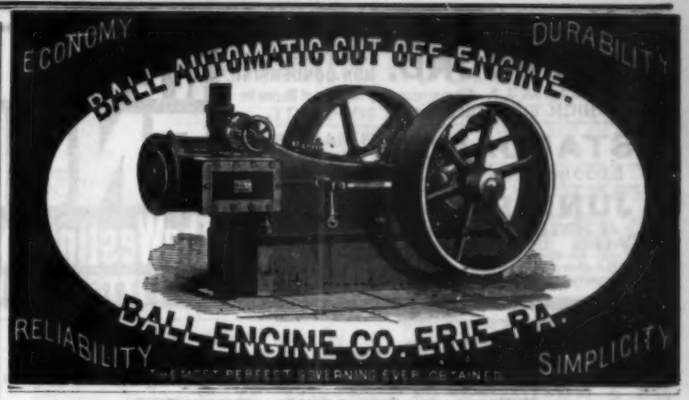
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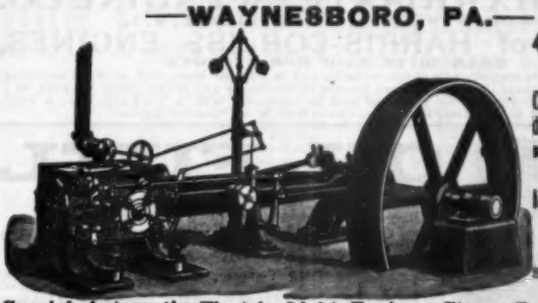
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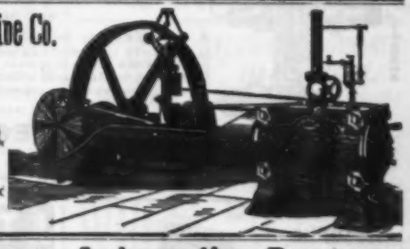
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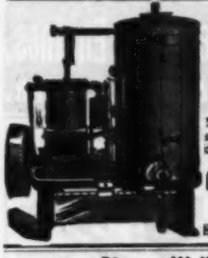
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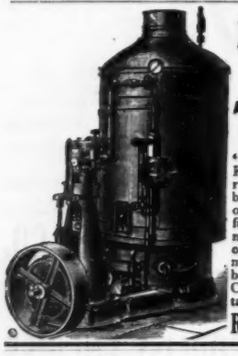
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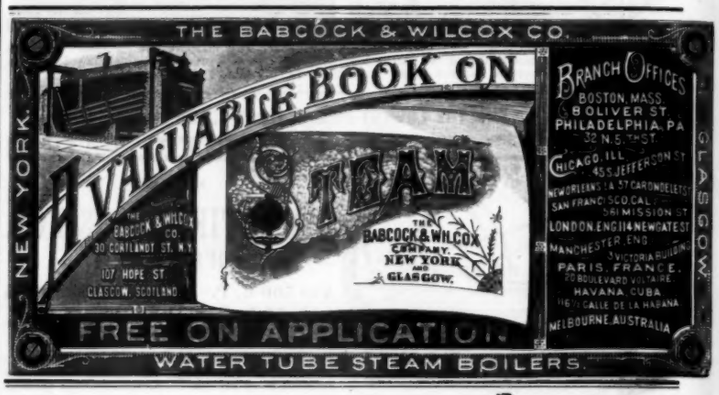
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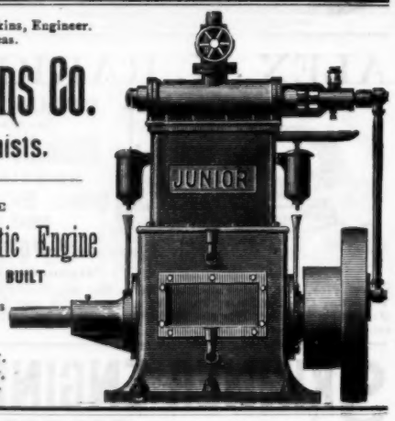
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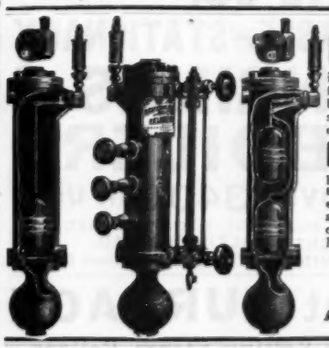
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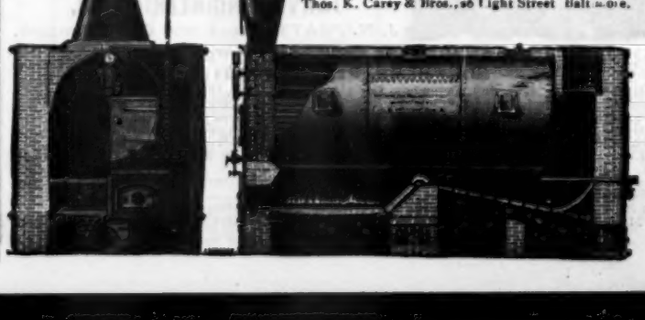


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What's in a name has been within the past four years most pointedly exemplified by E. T. Barnum. Everybody in Detroit is familiar with the train of circumstances which by degrees wrested a fortune from the principal owner in the celebrated Barnum wire works, which were built up and developed by the talent and industry of Barnum and which pushed its branches into Chicago and Minneapolis, and London and Windsor in Ontario, and extended and varied its trade. All are familiar with the manner in which the industry became involved, the acrimonious quarrels of the stockholders and the fire that capped the climax of misfortune and left Barnum without a cent; but with a character and reputation for business probity untarnished. All this is widely known, but it is not known that Barnum, undismayed by the disaster and with resolute persistency, began life again in the old line on no cash capital, but with a wide acquaintance among dealers, men who knew his business worth and sterling qualities.

Single-handed he sat down and wrote a circular, which was addressed to his old correspondents and customers, stating the facts in the case, the principal one being that he was flat on his business back, but still alive, and would be glad to have orders placed in his hands for filling, to which he would give his personal attention. In response he received a liberal share of orders, and in a short time business waranted the addition of more help. Gradually Barnum got hold of his old men who were thrown out of employment by the fire, and set them to work upon time orders in back rooms and niches provided for their accommodation Then a new factory was erected, where he concentrated his men and entered vigorously into the manufacture of his special lines. Here he finally established his trade and pushed it with such vigor as to be able to offer inducements for the sale by the proprietors of the immense establishment of the National wire and iron works, of which he becomes the sole proprietor to-day, an example of never-say-die worthy of the emulation of men.—The Evening News, Detroit, Mich.

THE Van Winkle Gin & Machine Co., of Atlanta, Ga., send us a little pamphlet discriptive of their cotton gins, oil mills, feeders, presses, condensers and other machines which we recommend a perusal of to those contemplating purchasing such goods. The pamphlet contains letters recommending the manufacturers of this firm very highly.

FIFTEEN HUNDRED acres of timber, mineral and grazing land in Transylvania county, N. C., are offered for sale by Mr. C. C. Patton, Brevard, N. C. (see advertisement.) Transylvania county is one of the most beautiful of all the counties in that wonderland—Western Carolina.

HORSE NAIL FACTORY TO BE BUILT—NEW DECATUR, ALA., June 24, 1889.—At a meeting on the 21st inst. of the Boss Horseshoers' Association, of St. Louis, Mo., 84 members were present, and adopted by resolution the nails manufactured by the Southern Horse-nail Co., of New Decatur, who will at once proceed to enlarge their works. This company is about to sign contracts to build 3½ miles of railroad (main track) for the Memphis & Charleston Railway, for the purpose of diverting their present line so as to run it through the new Union depot at New Decatur. We will also donate freight yards and depot grounds to that company, with whom all the preliminaries have been agreed on. The chancellor has decided the famous "Bean tract case" in our favor on every point. It involved our title to 20 acres in the very heart of New Decatur

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COTTON FACTORY TO BE BUILT—CORDELE, GA., June 25, 1889.—Major J. F. Hanover of Macon, Ga., has been elected president of the Cordele Manufacturing Company. He will have full charge of building and equipping cotton mill throughout. The plant when completed will cost $100,000, and will be located at Cordele.

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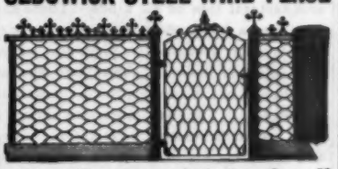
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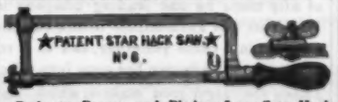
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THE MARKETS.

OFFICE MANUFACTURERS' RECORD,
BALTIMORE, July 2, 1889.

The volume of business in the iron trade for the past six days has exceeded that of any other week since the first of January. To all appearances the month of July will be an exceptionally active one. Favorable reports are received from all markets between Boston, St. Louis and Birmingham. Large transactions are taking place almost hourly in all the leading iron centers. The upward tendency has set in, and it is evidently the opinion of consumers that it is a permanent one. For months past buyers have been waiting for this turn of affairs. It has at last come and they are hurrying to cover requirements for the next three or four months before a very sharp advance takes place. The peculiarity of the market just at present is that there are no pronounced advances being made, but an active hardening in prices. In other words buyers are being warned by the strengthening of prices to get under cover. Several of the largest producing companies both North and South have contracted their crude iron product ahead for from three to four months. The smaller producers having ascertained this fact, are taking heart. Quite a number of the larger producers in the South are refusing to enter into contracts for forward delivery. Should the smaller companies soon sell their production for the next 60 days the natural result would be a farther advance by the stronger companies, who will prudently hold back any farther advance until they think that those in the rear are unable to cut prices beneath their feet. On this account there is considerable irregularity on Southern irons. Some companies are holding quotations way up and others are still booking business away down. Several speculative transactions have just been closed in Ohio river markets, particularly at Louisville and Cincinnati. This speculation will probably be checked by the refusal of some of the larger concerns to sell in this way any longer. The managers of the strong iron companies say they are as well able to speculate as the brokers farther North. The fact of the matter is that not only has consumption of iron increased, but stocks in all iron centers have dwindled down to a point which makes both makers and consumers feel that a permanent upward tendency has at last set in. This seems, of course, a rather sanguine view of the situation. In justice to the market the other side ought to be given. There is still more or less iron selling at late May and early June quotations. Many of these sales are made because options were extended, and the parties offering options could not withdraw. Then besides a great many sales are being made by those who have not yet the courage to put up prices, and who are anxious for business and for cash.

The threatened strike in the mills at Pittsburgh and farther west has been in part averted. The wages scale of the Amalgamated Association of Iron and Steel Workers for this year expired on Saturday. On Saturday evening 16 firms in Ohio, Indiana and Pennsylvania signed the new scale. On Monday several more signed, to-day an additional number signed. By Saturday it is believed that nearly all manufacturers will have signed this scale and that work will continue. The fight at the Homestead Steel Works of Carnegie, Phipps & Co. continues, but that is an exceptional case. The workmen who have been earning extraordinary wages have refused to accept any reduction, but on this the firm are determined. The firm will attempt to start up with non-union men, and have already made certain arrangements to that end. In Eastern Pennsylvania, in the Schuylkill valley particularly, wages have advanced from $3.00 to $3 25 per ton. This is certainly a welcome advance. The Eastern puddlers have not been able to understand why puddling East ranges from $3 00 to $3 50 while throughout the West $5.00 and $5 50 It should be kept in mind, however, that the helper is paid out of the office in the East and out of the puddler's wages in the West. There will be no farther labor troubles, it is thought, this winter. The Western Association broke up nearly a year ago, and the iron workers have had a clear field. The employers have been obliged to yield as usual, owing first to the pressure of demand for material, and second to the necessity of controlling their trade from outside competition. The workmen have refused to make any concessions, and for several reasons, chief of which is the advantage conferred on makers by natural gas.

From all Western centers comes the news of improving demand. Belief is based upon excellent agricultural reports and conditions. The makers of agricultural implements and of tools and of railway equipments are for the most part crowded with work which will keep them busy till cold weather. The manufacturers of barbed wire have been crowded with work all along and are still doing an excellent business. An attempt has been made to form a combination and another meeting is to be held this week perhaps at Cincinnati, and nail makers throughout the West have but an irregular market, and prices have been fluctuating. Freight rates have been unsettling demand. The Canadian Pacific has reduced rates west to Missouri river points. In a general way the steady demand for nails and the decline in stocks has improved prices. Cut nails in Chicago markets are $2.35. Wire nails $2.30. The sheet iron mills all over the country are now pretty well filled with work, and some of them are refusing to book heavy orders for fall delivery excepting at full card rates. This has been an excellent season for galvanized iron and for architectural iron of all kinds. There has been also a heavy demand during the last few days for wrought iron pipes and tubes. The advance made a short time ago at Pittsburgh has been respected by makers everywhere. The bar mills are doing a good summer's business. Quotations range in Pennsylvania mills from 1 55 cts. to 1.75 cts. and 1.85 cts. Store lots of refined sell at the latter figure.

Crude iron quotations at Tidewater markets are $15 to $16 and $17. Forge has been selling in one thousand ton lots at $15, and inferior fifty cents less. The advance of fifty cents by one leading company in New York and Philadelphia to new customers went into effect yesterday, and as a result a nominal advance has gone into effect among the larger iron makers, which may or may not be maintained. Stove founders have been inquiring for large lots of No. 2 but cannot purchase first-class brands under $16 50 at tidewater. Southern forge iron is selling at $14 25 to $14 50 at New York and $14.75 to $15 at Philadelphia. Southern No. 1 brings $17; No. 3 $14.75 to $15; No. 2 $15.50.

The improvement in the plate, tank and structural iron market continues. From latest private advices from railroad quarters is that the demands for several new bridges will soon be on the market. The wooden structures that have been erected will be rebuilt just as soon as the new work can be put up. Prices for beams and chamels are 2 80 cts., on other irons there is an advance averaging about a tenth of a cent.

The next important feature in the iron market is the steel rail trade. Steel rail makers are extremely reticent. The fact that they have been able to advance prices to $28 and $29 in Eastern markets is looked upon by buyers as an evidence of strength that they were not prepared to meet. The large buyers have been holding off for two or three reasons, chief of which was that they believe that prices could not be crowded above $26 in Western Pennsylvania and $27 in Eastern markets. Makers in New York and Philadelphia claim that even yet they will be able to secure all the supplies that they want between now and Christmas at these figures. The past week has not been characterized by any really large transactions. Small buyers are paying $27 at Pittsburgh mills.

HARDWARE.

There are no changes of importance to report since our last issue. Prices are without material change and the volume of business continued fair, Quite a number of Southern buyers have recently been on, and some good orders have been placed for future delivery.

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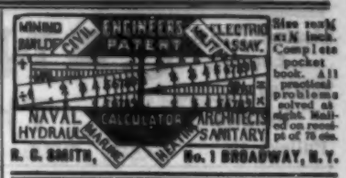
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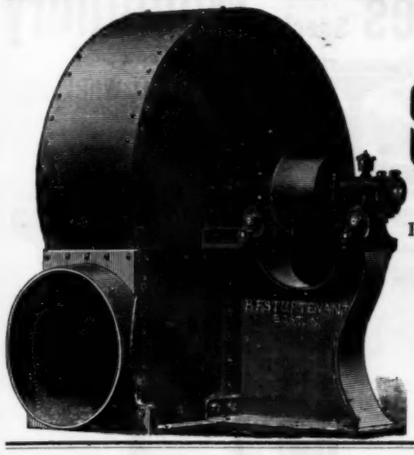
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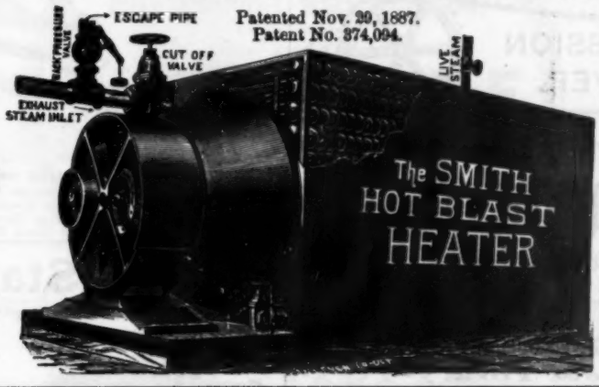
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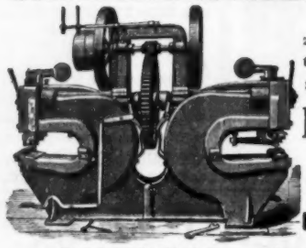
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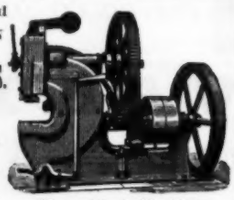
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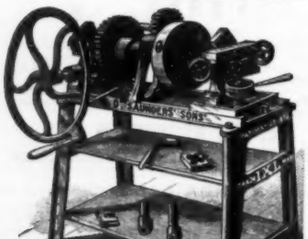
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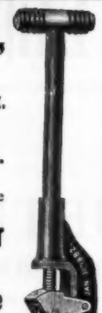
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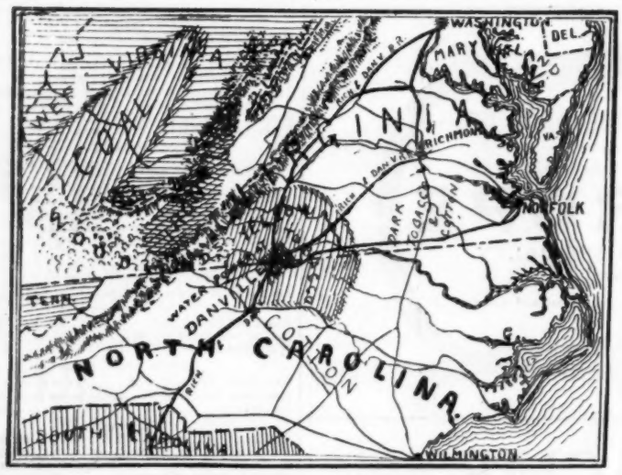
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Lawrence, "Perfect" ..... dis 25&10 %
Rubber ..... ℔ doz $10.00, dis 25 %
Sweet & Clarke ..... dis 50&10 %
Lusters ..... dis 25 %

CURTAIN PINS.

Silvered Glass ..... net
White Enamel ..... net

CUTLERY.

Association (Table) ..... net
Naugatuck Cutlery Co. ..... list net
Excelsior Knife Co. ..... net
Wilson's Butcher and Shoe Knives ..... dis 30 %
Ames' Shoe Knives ..... dis 20 %
Wm. Rogers Mfg. Co., Plated Cutlery ..... Net

DOG COLLARS.

Embossed Gilt ..... dis 30 %
Leather ..... dis 40 %
Brass ..... dis 40 %

DOOR SPRINGS.

Torrey's Rod, regular size ..... ℔ doz., $1.30
Gem (Coil): List, April 29, 1886 ..... dis 10 %
Standard—10 doz $1.25; 9 doz $1.75 ..... dis 60&10 %
8 doz 2.50; 6 doz $3.50 ..... dis 60&10 %
Hercules ..... dis 50&10 %

DRAWING KNIVES

Middlesex Mfg. Co. ..... dis 75 %
Crossman's No. 1 ..... dis 65&5 %
Nobles Mfg. Co. ..... dis 15 %
Bradley's ..... dis 35 %
Adjustable Handle ..... dis 20 %
P. S. & W. ..... dis 75 %
Douglass ..... dis 75 %

DRILLS AND DRILL STOCKS.

Blacksmiths' ..... $1.65 net
Blacksmiths' Self-Feeding ..... each, 7.50, dis 20 %
Breast, P. S. & W. ..... dis 40 %
Breast, Wilson's ..... dis 30 %
Breast, Millers Falls ..... each, $3.00, dis 25 %
Breast, Bartholomew's ..... each, $2.50, dis 25&10 %
Wilson's Drill Stocks ..... dis 10 %
Automatic Boring Tools ..... $1.85 each
Manneer Drill Mfg. Co's—
Model Bench Drill ..... $10.00, dis. 50 %
XXX Post Drill ..... $28.00, dis. 50 %

DOG BEATERS.

Dover ..... ℔ doz $2.50, dis 2 %
Acme ..... gross, $9.00
Victoria ..... gross, $10.00

EMERY AND EMERY PAPER.

Regular numbers ..... ℔ D 6c
Flour and F. F. ..... ℔ D 4c
S. & A. Emery Paper ..... dis 20 %

ENAMELED AND TINNED WARE.

Kettles ..... dis 70 %
Sauce Pans ..... dis 50 %
Tinned Sauce Pans ..... dis 50 %
Escutcheon Pins—Brass ..... dis 50 %

ESCUTCHEONS.

Door Lock ..... Same discounts as Door Locks
Brass Thread ..... dis 60 %
Wood ..... dis 25 %

FAUCETS.

Fenn's ..... dis 40 %
Fenn's Cork Stops ..... dis 33⅓ %
Star ..... dis 60 %
Peary's Patent Petroleum ..... dis 40 %
Wert's Patent Key ..... dis 50 %
Anchor Lock ..... dis 45 %
Metallic Key, Leather Lined ..... dis 55&10 %
Cork Lined ..... dis 70 %
J. Sommer's Best Metallic Key ..... dis 40 %
J. Sommer's Cork Lined, 1st quality ..... dis 50 %

FILES.

E. M. Boynton's ..... new list, dis 25 %
Western File Co. ..... dis 60&10 %
Butcher's ..... $4.50 to ¿
Moss & Gamble ..... $4.50 to ¿
H. Disston & Sons (new list) ..... dis 60 %
Heller Bros.' Horse Rasps ..... dis 30&10&5 %
Nicholson's ..... dis 60&10 %
New American ..... dis 60&10 %
Union File Co. ..... dis 60&10 %
Stubs, new list ..... $7.50 to ¿, 25 % off

FLUTING MACHINES.

Knox, 4½-inch Rolls ..... $3.50 each
Knox, 6-inch Rolls ..... $4.00 each ..... dis 35 %
Knox, 8-inch $6.50
Eagle, 3½-inch Roll ..... $2.15, dis 35 %
Eagle, 5½-inch Roll ..... 2.85, dis 35 %
Crown, 4½-in., $3.50; 6, $4.00; 8, $6.50 each ..... dis 35 %
Crown Jewell ..... 6-in., $3.40 each ..... dis 35 %
American, 5-in. $3; 6-in., $3.40; 7-in. $4.50 each dis 35 %
Domestic Fluter ..... $1.50 each, net
Geneva Hand Fluter, White Metal, ℔ doz $12 dis 25 %
Crown Hand Fluter, Nos. 1, $15; 2, $12.50;
3, $10.50; 4, $8.25 ℔ doz ..... dis 35 %
Combined Fluter and Sad Iron, ℔ doz $15.00, dis 30 %

FORKS.

Iowa Farming Tool Co's. ..... dis 65&5 %
Remington ..... dis 50&10 %
Eheble & Klemm ..... dis 60&10 %

FRY PANS.

Burnished list as follows ..... dis 70 %

No	0	1	2	3	4	5	6	7	8
℔ doz	$3.00	3.75	4.25	4.70	5.25	6.00	7.00	8.00	9.00

GAUGES.

Marking, Stanley's ..... dis 60 %
Marking, Chapin's ..... dis 60 %
Wire ..... dis 10&10 %
Wire, Disston's ..... dis 20 %
Wire, Wheeler, Madden & Co. ..... dis 10 %

GIMLETS.

Nail and Spike ..... dis 50 %
"Eureka" Gimlets ..... dis 40&10 %
"Diamond" Gimlets ..... dis 40&10 %
Double Cut, Shepardson's ..... dis 45 %
Double Cut, Hartwell's ..... dis 50 %
Double Cut, Ives' ..... dis 50&10 %
Double Cut, Douglass' ..... dis 40 %
"Reel" ..... ℔ gro. $10.00 dis 25 %

GLUE POTS.

Tinned and Enameled ..... dis 35 %
Family, Howe's "Eureka" ..... dis 40 %
Family, L. F. & C.'s "Handy" ..... dis 50&10 %

GRINDSTONE FIXTURES.

Sargent's Patent ..... dis 70&10 %
Reaning Hardware Co. ..... dis 33⅓ %

GUN WADS.

Eley's B. E. wads, 12 upwards $2.75
" " " 9 and 10 ..... 2.00
" " " 7 " 8 ..... 2.25
" P. E. " 12 upwards 2.50
" " " 9 and 10 ..... 3.25
" " " 7 " 8 ..... 4.25

HAMMERS.

Maydole's ..... dis 25 %
Mann'c Tack. Nos. 1,2,3, 1.26, 1.50 and 1.75 ..... dis 30 %
Warner & Noble's ..... dis 20 %
Kip's or Selsor's ..... dis 30 %
Yerkes & Plumb ..... dis 40 %
Hartford Hammer Co's New List—
Nail Hammers ..... dis 40&10 %
Hammers ..... dis 40&10 %
Sledges ..... dis 60&10 %
Mason and Spalling Hammers, &c. ..... dis 60&10 %

HANDLES.—Door or Thumb Latches.

No.	1	2	3
Per doz.	$0.90	1.00	1.18 1.35 1.50 ..... dis 60&10 %

Roggin's Latches ..... ℔ doz 35c.@40c. net
Bronze Iron Drop Latches ..... ℔ doz 70@90c.
Jap'd Store Door Handles—Nuts, $1.62; Plate, 1.12;
no Plate ..... 82c.
Barn Door ..... ℔ doz $1.60, dis 10 %
Wrought Chest ..... dis 65&10 %
Surface Chest ..... dis 55&10 %
Flush Chest ..... dis 55&10 %
Lifting ..... dis 50&10 %
Saw and Plane ..... dis 40&10 %
Lippincott Cross-Cut Saw ..... 20c. per pair
Hammer and Hatchet ..... dis 25 %
Brad Awl ..... ℔ gross, $2.00
Chisel, all kinds ..... dis 50&10 %
Auger, assorted, ℔ gross, $5.00 ..... dis 40 %
Auger, large, ℔ gross, $7.00 ..... dis 40 %
Patent Auger, Ives' ..... dis 25 %
Patent Auger, Douglass' ..... ℔ set $1.25 net
Patent Auger, Swan's ..... ℔ set 1.00 net

HAMMOCK CHAIRS.

White Mountain, per doz. $27.00
" " Finished in red, per doz. $21.00

HANGERS.

Cronk Hanger Co.—
No. 4, per doz. pair ..... $12.00, 50&10 %
" 5, " " " ..... 14.40, 50&10 %
" 6, " " " ..... 18.00, 50&10 %
Iron clad track ..... 9 cents per foot, 50&10 %
Barn door stays ..... $3.00 per doz., 50&10 %
Anti-Friction Barn Door Hanger, ℔ doz. pair, $.50 net
Cronk's Pat. Wire Cutter and Bender, 8 in.,
℔ doz. pair ..... $15.00 & 40%
Cronk's Pat. Wire Cutter and Bender, 10 in.,
℔ doz. pair ..... $21.00 & 40%
Barn Door, old patterns ..... dis 60&10 %
Barn Door, New England ..... dis 60&10 %
Climax (Anti-Friction) ..... dis 50 %
Warner's ..... dis 20 %
Richard's ..... dis 20 %
Ridder ..... dis 50 %
Paragon ..... dis. 40 to 40&10 %
Smith ..... 40 %

HATCHETS.

Underhill's ..... 40&10 %
Price Solid Steel ..... $6.00 net
Shingling, Nos. 1 2 3 ..... ℔ doz $7.25 $8.00 $8.75
Claw, Nos. 1 2 3 ..... ℔ doz 7.75 8.50 9.25
Lathing, Nos. 1 2 3 ..... ℔ doz 7.50 8.00 8.50
Hammond's new list ..... dis 40&10 %
Blood's ..... dis 35
Hunt's ..... dis 40
Russel's, low list ..... dis 40

HAY KNIVES.

Gem ..... ℔ doz $10.00
"Lightning" ..... ℔ doz $18.00 net 20 %
Wadsworth's ..... dis 40 %

HINGES

Blind Hinges—
Shepard's "Noiseless" ..... dis 75, 10&5 %
" "Niagara" ..... dis 80&2½ %
" "Buffalo" ..... dis 80&5 %
" Clark's Genuine Pattern ..... dis 80&5 %
" "Star" ..... dis 80, 5&2½ %
" "Champion" ..... dis 80&10 %
" "O. S." Lull & Porter. ..... dis 75&10 %
" "Acme," Lull & Porter ..... dis 75&5 %
" "Queen City" Reversible ..... dis 75 %
Clark's Old Pattern ..... dis 75, 10&5 %
Clark's Tip Pattern ..... dis 75, 10&5 %
Huffers ..... dis 50&10 %
Standard ..... dis 80 %
Standard Lull & Porter ..... dis 75&10 %
Gate Hinges and Latches—
Shepard's (Nos. 1, 2, and 3) and Clark's
Genuine Pattern ..... dis 60 10&5 %
Plate Hinges { 8, 10&12 in. ..... 5c. ℔ D.
"Providence" { over 12 ..... 4c. ℔ D.
Screw Hook and Strap. { 6 to 12 in. ..... 3½c. ℔ D.
{ 14 to 20 in. ..... 3¼c. ℔ D.
{ 22 to 36 in. ..... 2½c. ℔ D.
Crown spring hinges, for screen doors, dis 60 %; for solid doors, single action, dis 45 %; for solid doors, double action, dis 35 %.
Crown Screen Door Latch ..... ℔ gross $12, dis 55 %
Crown Christmas-Tree Holders, 2-inch, ℔ doz $2; 3-inch, $12 ..... dis 50 %
Bickford Portable Pump ..... each $6, dis 20 %
American Cake Mixer, No. 6 ..... each $3.50, dis 20 %
American Tobacco Cutter ..... ℔ doz $15, dis 30 %
A. M. Co. Clothes Wringer, No. 2 rolls, 10x13¾, ℔ doz ——; No. 2¾ rolls, 12x13¾, $48; No. 2 Japan $41.00 doz.; No. 2 Galv. $20.00 doz.; No. 2¾ Galv. $33.00 doz. ..... dis 20 %
Heavy Welded Hook { ⅜&12 in. $7.50 ℔ 100 lb. } dis
{ 14 in. & up, $6 ℔ 100 lb. } 20 %
Screw Hook and Eye { ⅜ & 1 in. —— } dis
{ ½ in. $3.80 } 10 %
{ ⅝ in. $4.45 }
{ ¾ in. $5.50 }
Wrought Strap & T list, Dec. 20, '77 ..... dis 70&10 %
Standard Spring Hinges, single and double action, dis. 60&10 %.

HOES.

Planters ..... 60&10 %
Riveted Shank ..... ℔ doz $5.00, dis 60&10 %
Grub ..... dis 60&10 %
Hubbard, Bakewell & Co. ..... dis 60&10 %

HANDLES.

Axe, Pick, Sledge, Hammer and Hatchet.. dis 33⅓ %

HORSE NAILS.

Amesbie: Nos.	5	6	7	8	9	10	
Plain, ℔ D...	31c	28c	26c	25c	24c	23c	dis 20&10 %
Finish'd ℔ D.	31c	28c	26c	25c	24c	23c	dis 20&10 %
Clinch'n, P'n, "	23c	21c	20c	19c	18c	dis 20&10 %	
Clinch'n, Fin'd "	24c	22c	21c	20c	19c	dis 20&10 %	
Essex, ℔ D.....	31c	28c	26c	25c	24c	23c	dis..... 5 %
Putnam "	27c	24c	22c	21c	20c	19c	dis 5&10 %
Saranac "	26c	23c	21c	20c	19c	18c	dis..... 10 %
Globe, "	26c	23c	21c	20c	19c	18c	dis 10&5 %
N'thw'n "	28c	25c	23c	22c	21c	20c	dis 10&10 %
Phœnix "	31c	28c	26c	25c	24c	23c	dis 40&10 %

Champlain
Forged ℔ D... 31c 28c 26c 25c 24c 23c ..dis 40&5 %
Anvil " ... 10c 10c 10c 10c 10c
A. C., ℔ D..... 28 25 23 22 21 21..dis 10,10&5 %
C. B. { ..... 28c 25c 23c 22c 21c 21c..dis 10&5 %
New Haven..... 31c 28c 26c 25c 24c 23c..dis 30&10 %
Capewell..... 31c 28c 26c 25c 24c 23c..dis 20&10 %

HORSE SHOES.

Walker's Horse Shoes.....$4.00 ℔ keg
Walker's Mule Shoes.....$5.00 ℔ keg
Burden.....$4.10 ℔ keg
Phœnix Light, Medium and Heavy Horse Shoes.....$4.10 ℔ keg
Phœnix Mule Shoes.....$5.10 ℔ keg
Bryden Forged Horse Shoes—
Frog Pressure.....$5.00 ℔ keg
Calked.....$5.25 ℔ keg
Special.....$6.00 ℔ keg
Bryden Calked Mule Shoes.....$6.00 ℔ keg
Perkins Horse Shoes.....$4.10 ℔ keg
" Mule " .....$5.10 ℔ keg
Ox Shoes—Mt. Carmel Ox Shoes .....10 cts. ℔ P.

ICE CREAM FREEZERS.

Peerless—3 quart, $4.50; 4 quart, $5.50; 6 quart, $7; 8 quart, $9; 10 quart, $12. Giant, with fly wheel, —12 quart, $20; 18 quart, $25; 21 quart, $30; 25 quart, $35; 32 quart, $40; 42 quart, $45. Discount, 50&10 %.

American—Discount 60 %.

2 qts.	3 qts.	4 qts.	6 qts.
$2.75	$3.25	$3.75	$5.00

Gem—Discount 65 %.

2 qts.	3 qts.	4 qts.	6 qts.	8 qts.	10 q s.	14 qts.
$3.75	$4 50	$4.50	$7 00	$9.00	$11 00	$14 00

Blizzard—Discount 70 %.

2 qts.	3 qts.	4 qts.	6 qts.	8 qts.	10 qts.	14 qts.
$3 75	$4.50	$5 50	$7.00	$9.00	$11 00	$14.00

Double Action Crown—Discount 60 %.

	8 qts.	10 qts.	14 qts.	18 qts.	24 qts.	32 qts
With crank..	$10.50	$13 00	$16.50	$21.00	$25.00	....
" fly-wheel.	13 00	16 00	20.00	25 00	30.00	$37.50

Crown—Discount 60 %.

2 qts.	3 qts.	4 qts.	6 qts.	8 qts.	10 qts.	14 qts
$3.75	$4.50	$5.50	$7.00	$9.00	$11.00	$14.00

Star—Discount 60 %.

2 qts.	3 qts.	4 qts.	6 qts.	8 qts.	10 qts.	14 qts.
$3.75	$4.50	$5.50	$7.00	$9 00	$11.00	$14 00

Sheparu's "Lightning" 2 qt., $2.50; 2 qt , $1 75; 3 qt., $4.50; 4 qt., $5.5°; 6 q .. $7 00; 8 qt., $, 00; 10 qt., $11.00, 14 qt., $14 00. Dis. 65 %.

"Jumbo' Lightning (extra heavy)—14 qt., Clutch and Fly-wh el $2 2.00; 2 qt., Clutch and Crank $23.00; 20 qt., Clutch and Fly-wheel, $28. 0.

White Mountain..... .....dis 50&20%.
Arctic ....dis 50& 33⅓%.

ICE CHIPPERS.

rown.....℔ doz 6.00, dis 25 %
Star.....℔ doz $3.00, dis 25 %

ICE SHAVE.

Gem.....℔ doz $6.00, dis 25 %

KNOBS.

Carriage, Jap'd 80 c ℔ gross).....dis 60&10 %
Base—Common.....dis 30&10 %
Hemacite Door Knobs.....new list, dis 35&5 %
Door Mineral.....
Door Por. Jap'd..
Door Por. Plated.
Door Por.....
} Same discounts as Door Locks.
Furniture Plain..... 75c gross inch, dis 10 %
Furniture, Wood Screws.....dis 25 %
Picture.....dis 60&10 %
Hemacite, Picture.....dis 35 %
Shutter, Porcelain.....5 %

LADLES.

Malting & Skim'ng, Monroe's Pat.℔ doz $4dis 55&10%
Malting, C & C.....dis 30&10 %

LANTERNS.

Owl Tubular, ℔ doz.....$5 50 net

LAWN MOWERS.

Acme Buckeye, Easy & Excelsior, new list..dis 50&10 %
Bay State.....dis 60&10 %

LINES.

Linen Fish.....dis 50 %
Wire Clothes, Galvanized, 100 feet.....℔ doz $3.00

LOCKS AND LATCHES.

Cabinet, Eagle.....
Cabinet, Gaylord.....
Cabinet, Bridgeport.....
} Changes made in list price of some numbers Jan. 1, 1881, dis 25&2 %
Cabinet, P. & F. Corbin.....dis 40 %
Trunk, new list, Jan 1, 1881.....dis 15&2 %
Yale Lock Co., Flat Key.....dis 40 %
Plate.....dis 33⅓&2 %

DOOR LOCKS, ETC.

Branford.....
Norwalk.....
Norwich.....
P. & F. Corbin.....
Russell & Erwin.....
Mallory, Wheeler & Co.....
Nimick & Brittan Mfg. Co..
} List of May 4th 1887, 50&10% & 2% cash.
Padlocks—Russell & Erwin.....
Mallory, Wheeler & Co.....
Norwich Lock Manf. Co.....
Wm. Wilcox & Co.....
Nimick & Brittan Mfg. Co.....
} dis 75 % and 2% for cash.
Wm. Wilcox & Co's Plate Locks.....dis 33⅓&2 %
Yale Lock Manf. Co's "Standard".....dis 40 %
Romer's.....dis 25@40 %
Conestoga.....dis 80 & 10 %
Scandinavian, "Norwich".....dis 30&10 %
Nimick & Brittan's Burglar-Proof Locks....dis 50&2%

MALLETS.

Penfield Block Co., Apple, Hickory and Lignumvitæ.....dis 30 %
Ripley Mfg. Co.....dis 30 %

MEAT CUTTERS.

Americ a	3	A	4
	$5.00	$7.00	$10.00	$12.00	$25.00

American, B, 50.00; 5, $60.00.....dis 30 %

Dixon's (P. S & W.) Nos. 1 2 3 4

℔ doz $14 $17 $19 $30-dis 40 %

Parry's,	Nos.	1	2	3	4	4 gr'd	5 gr'd
	Each.....	$3	4	5	11	13	30

Woodruff's (P. S. & W.).....Nos. 100 150

℔ doz. $15 18-dis 40 %

Hales'.....Nos. 11 12 13

℔ doz. $27 35 45-dis 70&5 %

Beef Shaver, (Enterprise Manf. Co.)....dis 50&10 %

MOLASSES GATES.

Stebbins Patterns.....dis 70&10 %
Stebbins Genuine.....dis 66⅔&10 %
Stebbins Tinned Ends.....dis 40&10 %
Chase's Hard Metal.....dis 50&10 %
Self-Measuring, (Enterprise).....dis 50 %
Lincoln's Pattern.....dis 66⅔&10 %
Weed's.....dis 50 %

Boss	Nos.	1	2	3	4
		$7	$8	$9	10-...℔ doz

Boss, Japanned Finish.....dis 60&10&10 %
Brass, Bronze Finish.....dis 50&10&10 %

Perfection	¼	⅜	1	1¼	1½	2
	$9.50	$12.00	$14.00	$16.50	$20.00	$24.00—50%

NUTS AND WASHERS.

	¼	5-16	⅜	½	⅝	¾	1
Square Nuts	9½	7	5½	4¾	4¼	3½	3¼
Hexagon Nuts	10½	12½	9¼	7¾	6¼	5¼	4¼
Washers	8¼	7¼	5¾	4¾	4	4	4

PLAITING MACHINES.

Astor Plaiting Machine.....each $15, dis 50 %
Crown Plaiting Machines.....dis 25 %
6 in., $6; 10 in. $8 each.

PLANES AND PLANE IRONS.

Meriden Malleable Iron Co., iron planes .dis 30&10 %
Beach, First Quality.....dis 40 %
Beach, Second Quality.....dis 50 %
Molding.....dis 30 %
Bailey's (Stanley R. & L. Co.) New list, Jan. 1879.....dis 50&10 %
The Stanley (S. R. & L. Co.) new list, January 1879.....dis 50&10 %

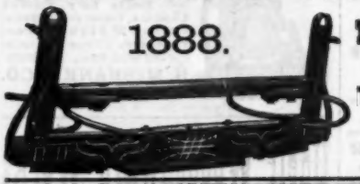
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The Best in the World.

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FOR SALE BY ALL
LEADING JOBBERS
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HOUSE-FURNISHING GOODS.

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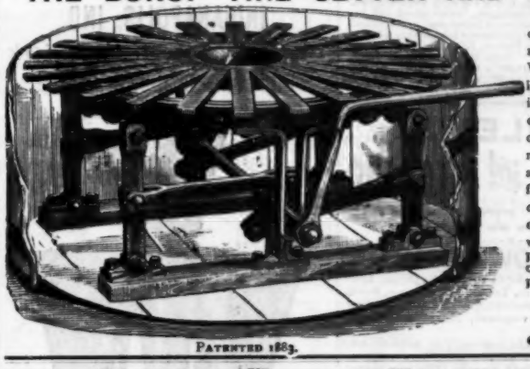
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The Best Bolster Spring on Earth.

SEND FOR PRICES.

TITUS & BABCOCK,
Sole Agents.
ROCHESTER, N. Y.

THE BOKOP TIRE SETTER AND COOLER.



PATENTED 1883.

Over 500 now in successful operation. Is made of nearly all Wrought Iron, therefore is stronger, lighter, easier operated, and more durable than any machine made, and is warranted against all breakages for two years. Set four tires to one over the old way. The burning of felloes and warping of wheels is a thing of the past. Sent on trial. For circulars, refrences, and price list, address

H. D. BOKOP,
Defiance, Ohio.
Over 500 in use.



THIS HANGER GUARANTEED TO GIVE PERFECT SATISFACTION,

and our Track has no equal, and our prices are right.

Try a small order and satisfy yourself.

National Hardware and Malleable Iron Works.

Tackle Blocks, Oar Locks, Cleats, Thimbles and Awning Fittings
MADE OF THE BEST MALLEABLE IRON GALVANIZED.
MALLEABLE, SOFT GREY IRON and STEEL CASTINGS to order.
ALL KINDS OF FITTING AND FINISHING.
THOS. DEVLIN & CO., Lehigh Ave. and Third Sts., Phila., Pa.

WIER & WILSON

DIRECT REPRESENTATIVES:

HUBBARD & CO. - - - - Axes, Shovels, Hoes and Saws.
AMERICAN SCREW COMPANY, - Screws, Bolts, Wire Nails, &c.
A. FIELD & SONS, - - - - - Tacks, and Nails.
WHEELING HINGE COMPANY, - Wrought Goods, Butts, &c.
OLIVER BROTHERS & PHILLIPS, - - - Heavy Hardware.
L. D. FROST & SONS, - - - Philadelphia Carriage Bolts.
J. P. TOLMAN & CO. - - - - - Braided Sash Cord.
JOHN SOMMERS' SON, - - - - - - - Faucets.
NICHOLSON FILE CO. - - - - - - - Files
HARTFORD HAMMER CO. - - - Hammers and Sledges.
THE HENRY C. HART MFG. CO. - Screen Frames, Lull & Porter, Blinds, Spring Hinges, &c.
SHEBLE & KLEMM, - - - - - - - Forks.
HOLROYD & CO. - - - - - - - Stocks and Dies.
BAKER CHAIN & WAGON IRON MFG. CO. - Wagon Hardware, Links, Rings, &c.
CLARKE BROS. & CO., - - - - - - Bolts, Nuts, etc.
BRANFORD LOCK WORKS. WHITE MOUNTAIN FREEZER CO.
DRUID FELT CO., - - - - - Fabric Roofing and Paint.

OFFICE No. 14 West German Street - - - BALTIMORE, MD.

Jailey's .....dis 50&10 %
Plane Irons, Butcher's.....$3.00 ℔ doz
Plane Irons, Auburn Tool Co.....dis 20 %
Plane Irons, Ohio Tool Co.....dis 20 %
Plane Irons, Sandusky Tool Co.....dis 20 %
Middleaux Mfg. Co., single and cut.....dis 50&10 %
Middleaux Mfg. Co., double..... 33⅓&20 %

PLIERS AND NIPPERS.

Button's Patent.....dis 50&10 %
Hall's Pat. Compound Lever Cutting Nippers, No. 0, 5 in. $13.50; No. 4, 7 in., $21 ℔ doz...50&10 %
Gas Pliers.....dis 30 %
Acme Combined Plier and Wire Cutter, 4½-inch, $10; 6-inch, $12; 8-inch, $15; 10-inch, $24..dis 30 %
Acme Cutting Nipper, 10-inch, $2.25; 12-inch, $3; 19-inch, $1.75; 8-inch, $2.00; 6-inch, $1.25 each...20 %

PLUMB AND LEVELS.

Disston's.....dis 45 %
Stanley R. & L. Co.'s Pat. Adjustable..dis 65&10&10 %
Stanley R. & L. Co.'s Non-Adjustable..dis 65&10&10 %
Chapin's Patent Adjustable.....dis 65&10&10 %
Chapin's Non-adjustable.....dis 65&10&10 %
Standard Rule Co. 2 Wew Adjustable.....dis 65&10 %
Standard Rule Co.'s Non-Adjustable.....dis 65&10 %
Pocket Levels.....dis 65&10 %

PRESSES (Fruit and Jelly).

Shepard's "Queen City".....dis 40 %

PUNCHES.

Avery Revolving Punch .....dis 30&10 %

RAIL.

Sliding Door, Wrought Brass.....℔ ft. 35c. dis 20 %
Sliding Door, Bronzed Wrt. Iron....℔ ft. 25c. dis 20 %
Sliding Door, Iron, Painted.....℔ ft. 4c. dis 20&10 %
Barn Door.....inch..... ⅝ ¾ ⅞
Per 100 feet.....$2.50 3.00 4.40-dis 10 %
B. D. for N. E. Hangers— Small. Med. Large
Per 100 feet.....$2.15 2.70 3.25 net.

RIVETS.

Iron and Tinned, new list, Nov. 17, 1887.....dis 50 %
In bulk, new list, Dec. 20, 1881.....dis 33 %
Copper Rivets and Burrs.....dis 50 %

Nos..	7	8	9	10	11	12	13	14	15
℔ lb..	45c.	50c.	52c.	54c.	56c.	58c.	60c.	62c.	70c.

RIVET SETS.....dis 50 %

RODS.

Stair, Brass.....dis 25 %
Stair, Black Walnut.....30c. ℔ doz.—net

RULES.

	Boxwood.	Ivory.
Chapin's.....	dis 80 %	dis 50&10 %
Standard.....		
Stanley.....		
Stevens & Co.....	dis 80%	Ivory.....dis 50 %
Stevens & Co. Miscellaneous.....		dis 50&10 %

SAD IRONS.

Self-Heating, Charcoal.....℔ doz 9.00 net
Mrs. Pott's Irons.....dis 35 %
Enterprise Star Irons, new list, July 20, 1887.....dis 35 %
Comb'd Fluter and Sad Iron....℔ doz $12.00, dis 25 %
Common Sad Irons.....dis&c ℔ lb

SAND PAPER.

Baeder & Adamson's Flint, 00@1½ .$4.50 ℔ r'm.
Baeder & Adamson's Flint, 2, 2½&3 .3.00 ℔ r'm.
Baeder & Adamson's Flint, Assort'd 4.75 ℔ r'm.
Baeder & Adamson's Star..... 3.75 ℔ r'm.
Baeder & Adamson's Emery ℔ r'm $8.50@11.50
} Wet & Dry

SASH LOCK.

Clancy's No. 100, per gross.....dis net
Nimick & Brittan Mfg. Co.....dis 30%
Automatic Double-Action Sash Lock and Holder, $7.00 ℔ gross.

SASH CORD.

Common .....℔ lb. 15c. net
Patent.....℔ lb. 17c@18c. net
Silver Braided Lake Hemp..... ℔ lb., 30c, dis 20 %
Silver Braid, Lake White Cotton, ℔ lb., 30c. dis 20 %
Silver Braided Lake Drab Cotton, ℔ lb. 25c. dis 20 %
Silver Lake Cable Laid, Beagall Unbleached Hemp, 17 cts.....dis 20 %
Russian Hemp, 19 cts.....dis 20 %
Italian Hemp, 34 cts.....dis 20 %
Samson Braided, white cotton.....dis 30 %
" drab cotton.....dis 30 %
Massachusetts.....25c. ℔ lb.

SASH WEIGHTS.

Solid Eyes, in 300-lb. lots and over, ℔ lb. 2½c. net

SAUSAGE STUFFERS OR FILLERS.

Miles.....℔ doz. $20, dis 25&25 %
Parry.....℔ doz., No. 13; No. 0, $21.....dis 35 %
Enterprise Mfg. Co.....dis 30 %
Monarch.....dis 40 %

SAWS.

Boynton's Lightning Cross Cuts, new list.....25c. net
Boynton's Circular and Mill.....dis 40 %
Boynton's Ice.....dis 25 %
Boynton's Lightning Hand, Panel and Rip.....dis 25 %
Disston's Circular.....dis 40 %
Disston's Mill.....dis 40 %
Disston's Cross Cut.....dis 40 %
Disston's Hand, Panel, Rip, &c.....dis 20 %
Hubbard, Bakewell & Co. Circular Saws...dis 40&5 %
Hubbard, Bakewell & Co. Cross Cut.....30c. ft.
Hubbard, Bakewell & Co., One-Man's, X Cut .....dis 40&5 %
Hubbard, Bakewell & Co., Mill Saws.....dis 40&5 %
Pence Circular and Mill.....dis 40 %
Pence Hand, Panel and Rip.....dis 25 %
Pence Cross Cuts.....dis 25 %
Pence Hand Saws, all grades.....dis 25 %
Webster Cross Cut, with handles.....℔ ft. 18c.
Griffin's Hack Saws and Blades.....dis 30 %
F. W. Swett's Band Saw Blades.....dis 20 %
Atkins' Circular.....dis 20 %
Atkins' Silver Steel Diamond X Cuts.....℔ ft. 75c.
Atkins' Concave Tooth Duster X Cuts.....℔ ft. 35c.
Atkins' Special Steel Diamond X Cuts.....℔ ft. 30c.
Atkins' Tuttle and Electric Tooth X Cuts..℔ ft. 30c.
Atkins' Hollow Back X Cuts.....℔ ft. 22½c.
Atkins' Shingle, Mulay, Drag, &c.....dis 45 %
Diamond Hack Saw .....dis 25 %

SAW FRAMES.

Waite.....℔ doz $2.25, dis 20 %
Saw Rods.....$20 list, dis 20&10 %

SAW SETS.

Stillman's Genuine....℔ doz $3.00 and $4.75, dis 40 %
Stillman's Imitation.....℔ doz $2.25, dis 40 %
Common Lever.....℔ doz $2.00, dis 40 %
Leach's.....No. 0, $2.00; No. 1, $2.25; dis 15 %
Hammer, Hotchkiss.....$2.50, dis 20 %
Aiken's Genuine.....$13.00, dis 35 %
Aiken's Imitation.....$7.00, dis 35 %
Disston's.....dis 20 %
Merrill's.....No. 1, $15; No. 2, $20; dis 40 %
Atkins' Adjustable.....℔ doz $2.00
Atkins' Criterion.....℔ doz $2.50
Atkins' Criterion for Hand Saws.....℔ doz $2.50
Avery Saw-set and Punch.....dis 40 %

SAW TOOLS.

Atkins' Excelsior.....℔ doz sets $6.00
Atkins' Perfection.....℔ doz sets $12.00

SCALES.

Hatch, Counter, No. 171.....℔ doz $20, dis 33⅓ %
Hatch, Tea, No. 181.....℔ doz $12.00, dis 33⅓ %
Union Platform, Keystone.....$6, dis 45 %
Chicago Scale Co.....Special dis
Fairbanks'.....dis 20 %
Forsyth Scale Co.....dis 45 %
Howe's.....dis 20&10 %
Chatillon's Grocers'.....dis 25 %
Chatillon's Bank.....dis 25 %
Family Universal.....dis 30 %
Family Favorite.....dis 30&10 %
Family Turnbull's.....dis 30&10 %
Scale Beams, List of Jan. 10, 1880.....dis 60 %

IRON & STEEL ROOFING.

CORRUGATED & CRIMPED SIDING, CEILING ETC. MANUFACTURED BY W. G. HYNDMAN & CO. CINCINNATI OHIO

SCREW DRIVERS.

Douglas Mfg. Co.....dis 50&10 %
Disston's.....dis 45 %
Cowles Mfg. Co.....dis 70 %
Stanley Rule & Level Co's. Var. Hdls.....dis 50 %
Stanley Rule & Level Co.'s Black Hdls.....dis 50 %
Ratchet.....dis 33⅓ %
Clark's Patent.....dis 25 %
Shepardson.....dis 25 %

SPOKE TRIMMERS.

Bonney's.....⅌ doz $10, dis 50 %
Stearns'.....⅌ doz $9, dis 50&10 %
Ives'.....No. 1, $15; No. 2, $12 ⅌ doz, dis 55&10 %
Douglass'.....⅌ doz $9, dis 60 %

SILVER PLATED WARE.

Wm. Rogers Manf. Co.....dis 50&10 %
Holmes, Booth & Haydes.....dis 50&10&5 %
Wallace's Steel Silver Plated.....dis 33⅓&10 %
Rogers Bros 1847.....dis 50&5 %
C. Rogers & Bro.....dis 50&10 %

SCREWS.

Standard new list, March 1.

Flat Head Bright.....50 %
Round Head Blued.....40 %
Round Head Bright.....40 %
Flat Head Brass.....45 %
Round Head Brass.....35 %
Flat Head Blued (add 5 % to 2nd).....50 %
Brass and Silver Capped.....40 %
Japanned Flat Head.....40 %
Coach, Patent Gimlet Point.....dis 75 %
Coach, Common or Lag.....dis 75 %
Bed.....dis 25 %
Machine, Flat Head, Iron.....dis 55 %
Machine, Round Head, Iron.....dis 50 %
Bench, Iron.....dis 55&10 %
Bench, Wood, Beach.....⅌ doz $2.25, dis 10 %
Bench, Wood, Hickory.....dis 50&10 %
Hand, Wood.....dis 25&10 %
Hand Rail, Sargent's.....dis 60&10 %
Hand Rail, Humason, Beckley & Co.'s.....dis 50&10 %
Hand Rail, Am. Screw Co., list Jan. 1, '81.....dis 70 %
Jack (Wilson's).....dis 25 %

SCREEN FRAMES AND FIXTURES.

Standard Window Screens No. 1, ⅌ doz $4; 2, $5
" Door " No. 5, $15; dis 50&10 %
" Window Corner Irons, No. 3, doz. st's, $2
" Door " " No. 6, " " $3
dis 50&10 %
" Door Latches, ⅌ dozen, $3.60.....dis 50 %
Porter's Patent Window and Door Screen Frames:

	PER DOZ. SETS. In Im. Bl'k White. Walnut.	
No. 20	$2.75 $3.25	dis 33⅓ %
No. 21	3.25 4.00	
No. 22	5.50 7.75	
No. 23	6.00 7.50	
No. 30	9.00 11.00	

Porter's Corners—
No. 0. Corners and Sticks complete for a three-foot window, ⅌ doz sets.....$4
No. 1. Set for Window, ⅌ doz sets Bronzed, $6.40; Nickel, $8.60
No. 1½. " " ⅌ doz sets, Bronzed, $8.25; Nickel, $7.50
No. 4. " " ⅌ doz sets, Bronzed $4.00; Nickel, $8.00
No. ¾. " " or door, ⅌ doz sets, Bronzed, $1.20; Nickel, $3.00
No. 4½. " " or Door, ⅌ doz sets, Bronzed, $6.00; Nickel, $4.00
No. 0½. " Door, ⅌ doz sets, Bronzed, $6.75; Nickel, $15.00
No. 3. " " ⅌ doz sets, Bronzed, $12.00; Nickel, $24.00
Boughton's Adjus. Window and Door Screens.dis 25 %
Boughton's Adjus. Window and Door Frames..dis 20 %
Window screen frames (Stuart's).....dis 25 %

SHEARS AND SCISSORS.

American (Cast) Iron.....dis 70&10 %
Pruning.....see Pruning Hooks and Shears
Barnard's Lamp Trimmers.....⅌ doz $1.00
Tinners'.....dis 20%
Massachusetts.....dis 50&10 %
Seymour's.....dis 60&10 %
Jersey Shears.....dis 80 %
J. Wiss & Son. Nickle, 50&5 %; Japanned, 60&10 %
O. S. Co. Brand—
Full Nickel.....dis 65&10 %
Jap. Handles, Nickel Blade.....dis 75&10 %

SHEAVES.

Sliding Door, M. W. & Co., List.....dis 45&5 %
Sliding Door, R. & E. list.....dis 60&5 %
Sliding Door, Patent Roller.....dis 60&10&5 %
Sliding Door, Pt. Roller, Hatfield's...dis 60&10&5 %
Sliding Door, Russell's Anti-Friction...dis 60&10&5 %
Also see Hangers.

SHOVELS AND SPADES.

Ames, New List, November 1 1885.....dis 20 %
Griffiths.....dis 50&5 %
Remington's (Lowman's Patent).....dis 20 %
Rowland's.....dis 60 %
Lippincott, new list.....dis 25 %
Ruwy, Sims & Co.....dis 25 %

SILVER PLATED HOLLOW WARE.

Wm. Rogers Manf. Co.....dis 50 %
Meriden Britannia Co.....dis 40 %

SOLDERING IRONS AND COPPERS.

Covert's Soldering Irons.....dis 25
Covert's Adjustable Coppers.....dis 25

SPOONS.

Britannia.....dis 60, 20&10 %
Tinned. Iron, Table and Tea.....dis 65 %
Tinned Iron Basting.....dis 30 %
German Silver.....dis 40&5 %

STONE.

Hindostan No. 1, 4c.; No. 2, 5c.....net
Sand Stone.....⅌ lb., 6c., dis 33⅓&10 %
Washita Stone.....No. 1, ⅌ lb., 45c. net.
Washita Stone, Slips.....No. 1, ⅌ lb., 45c. net.
Arkansas.....$1.50 ⅌ lb., net

SQUARES.

Steel.....dis 60&10 %; full cases, dis 70&10 %
Iron.....dis 60&10 %; full cases, dis 70&10 %
Nickel Plated.....add $0.50@$4 ⅌ doz net.
Try Square and T Bevels.....dis 50&10 %
Master's Try Squares and T Bevels.....dis 40 %
Avery Flush Bevel Squares.....dis 50&5 %
Avery Flush Bevel Protractors.....dis 50&5 %

TACKS, BRADS, &C.

American Iron Carpet Tacks, all kinds....70⅔&10 %
Steel Carpet Tacks, all kinds.....70⅔&10 %
Swedes Iron Carpet Tacks, all kinds.....70⅔&10 %
Swedes Iron Tacks.....67⅓&10 %
Swedes Iron Upholsterers' Tacks.....67⅓&10 %
Tinned Swedes Iron Tacks.....67⅓&10 %
Tinned Swedes Iron Upholsterers' Tacks..67⅓&10 %
American Iron Cut Tacks.....70&10 %
Clasp and Lace Tacks.....67⅓&10 %

FOR ALL KINDS IRON AND STEEL

ROOFING

CEILING, SIDING, IRON DOORS, SHUTTERS

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Hardware and Gun Trade: Quote our

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Electrotypes furnished gratis for catalogues. Liberal commissions. Send for book free. Address

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WHICH? BUTTER OR CHEESE.



If either, or both, send for J. S. CARTER'S Illustrated Catalogue, which gives full information of latest and best method and appliances for making Cheese or Butter, from the largest factory to the smallest dairy.

Carter's Cream Gathering System of Butter Making is a Success.

JOHN S. CARTER, Syracuse, N. Y.

ASHLEY'S Bromine and Arsenic WATER.

NATURE'S OWN REMEDY.

For Bright's Disease, Rheumatism, Syphilis, Erysipelas, Old Sores, Ulcers, Tetter, Salt Rheum, Scald Head, Eczema, Skin Diseases, Gravel, Female Diseases, Dyspepsia, Nervousness, Heartburn, Restlessness, etc.

The water may be taken internally or applied externally, or both ways as the case may require. Contains 52 per cent. more arsenic than any water analyzed.

It will remove pimples, blotches, and all eruptions of the skin by simply moistening the skin with it two or three times a day.

Science has never produced a compound that will equal its effects in cleansing and beautifying the skin. A complexion that is repugnant on account of pimples, blotches, or any eruptive skin disease is transformed into one of beauty and attractiveness by its magic touch.

TESTIMONIALS NOW ON FILE.

I regard it as being one of the finest mineral waters in the world. It is a splendid tonic for me. J. B. CHILDERS, Bristol, Tenn. I used it as a blood purifier with very satisfactory results. H. E. JONES, Assistant Cashier Bank, Bristol, Tenn. Out of the hundreds of bottles sold by us we have not heard a complaint. W. H. FILLINGER & BRO., Bristol, Tenn. My wife is charmed with it. A. E. DICKINSON, Editor Religious Herald, Richmond, Va.

Rev. H. Burroughs, of Norfolk, Va., one of the most prominent Baptist ministers in the South, says: The Ashley Bromine and Arsenic Water has been of very decided benefit to me in a sore and long affliction from obstinate and painful eczema. I find the water, too, so generally conducive to health and so pleasant to the taste, that I use it as a daily drink.

J. L. Davies, Knoxville, Tenn., says: Having suffered from inflammatory rheumatism for two months, I can testify that Ashley's Bromine and Arsenic Water has certainly relieved me.

Chicago, April 15, 1889.—Ashley's Bromine and Arsenic Springs Co., Bristol, Tenn.

Gentlemen—Two cases of your water cured me of the most aggravated case of Dyspepsia, to which human was ever subjected. I can eat anything now from a Rice Bird on toast to a Georgia beef-steak.

H. C. BOYD, Jr., Southern Agent for Armour.

Jas. S. Kennedy, D. D., Plasterburg, Va., says: My daughter was seriously ill and a great sufferer from bladder and kidney trouble. Thinking that Ashley's Bromine and Arsenic Water would relieve her, I procured one bottle, the use of which gave decided relief. Then I ordered a case. She continued its use for several weeks and is entirely cured. Another instance came under my observation, in which the use of the water in small quantities at first proved a signal cure for inflamed eyes. It was a chronic case, and threatened the utter loss of sight, and indeed of the eye as well. In a few months the patient was completely restored. She had been under the treatment of two experienced and distinguished oculists without any relief whatever. I believe your water possesses some invaluable medical qualities.

The water is put up in cases of twelve half gallon bottles. The water is bottled at the spring and sealed air-tight.

Price per Bottle, - - - - - $ 50
Price per Case, - - - - - 5.50

Send for Circulars.

ASHLEY BROMINE & ARSENIC WATER CO.
BRISTOL, TENN.

STIEFF PIANOS THE BEST.

Offices and Warerooms, - 9 E. Liberty Street, BALTIMORE, MD.



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TACKS ASH SMALL NAILS
Of every Style and Size
Prices and Samples on Application.
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Fine Iron and Brass Castings Made to Order.



Manufacture those celebrated Bells for Tower Clocks, Court-Houses, Cotton Mills, Factories, &c. Prices and catalogues sent free. Address

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Baltimore, Md.

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INDIANAPOLIS, IND.

79 Reade Street, New York

Udell's Patent Excelsior Broom Stand.

BEST IN THE WORLD.



The accompanying cut represents the most perfect Broom Stand ever invented. The top wheel, through which the brooms are put, and the braces by which it is fastened to the standard are of the *best malleable iron*. The base wheel is made of hard wood, varnished, and is securely braced to the standard. There is no danger of breakage when in shipping order, as the top section of the standard is taken out and placed inside the wheels, the main part of the stand being shipped set up ready for use. Every stand is mounted on substantial casters. Write for our catalogue of Specialties for the Hardware and Woodenware Trade.



STEARNS' NEW BENCH DRILL

WITH NEW ADJUSTABLE BED PLATE.

26¼ inches high. Weight 29 lbs. Drills up to ½ inch. Run of screw 3½ inches. Extension crank for large drilling. Chuck holds ⅜ round or tapered brace drill. Spindle feeds quickly to work.

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"THE OHIO" Shears and Scissors

ARE THE BEST.

Address for terms and discounts

THE OHIO CO-OPERATIVE SHEAR CO.
ELYRIA, OHIO.

Crimp and Lace Tacks.....67⅓&10 %
Copper Tacks.....33⅓&10 %
Copper Fastening and Trunk Nails.....33⅓&10 %
Cigar Box Nails.....45&10 %
Finishing Nails.....60&10 %
Trunk and Chest Nails.....60&10 %
Tinned Trunk and Chest Nails.....60&10 %
Basket Nails.....60&10 %
Chair Nails.....60&10 %
Zinc Glaziers' Points.....40&10 %
Common and Patent Brads.....60&10 %
Carpenters Moulding and Miners' Tacks.....60&10 %
Tinned Capped Trunk Nails.....50&10 %
Looking Glass Tacks.....45&10 %
Picture Frame Points.....40&10 %
Leathered Carpet Tacks.....45&10 %
Brush Tacks.....45&10 %

TAP BORERS.

Common and Ring.....dis 20 %
Ives' Tap Borers.....dis 25&10 %
Enterprise Mfg. Co.....dis 25 %

TOBACCO CUTTERS.

Enterprise Mfg. Co (Champion).....dis 50&10 %
Wood Bottom.....⅌ doz $3.50
All Iron.....⅌ doz $9.50, dis 50&5 %
Wilson's.....dis 50 %

THERMOMETERS.

Tin Case.....dis 75&10 %
Storm Glasses.....$3.25 ⅌ doz.

TON CALKS.

Winsted.....⅌ lb 9c. dis 5 %

TRAPS.

Game, Newhouse.....dis 35 %
Game, Oneida Pattern.....dis 60&10&10 %
Game, Blake's Patent.....dis 50&10 %
Mouse, Wood Choker.....⅌ doz holes, 15c
Mouse, Round Wire.....⅌ doz $1.50, dis 10 %
Mouse Cage, Wire.....⅌ doz $2.50, dis 10 %
Mouse, Catch-em-alive.....⅌ doz $2.50, dis 10 %
Cyclon Mouse.....⅌ doz 60 cts.
Ideal Mouse.....⅌ doz $1.00
Boss.....⅌ doz $9.50
Rat, "Decoy".....⅌ doz $10.00, dis 10 %
Delusion Mouse, per doz.....$1.50
Ideal.....$13.50 ⅌ gross

TROWELS.

Leathrops' Brick and Plastering.....dis 30 %
Reed's Brick and Plastering.....dis 25 %
Disston's Brick and Plastering.....dis 50&10 %
Clement & Maynard's.....dis 20 %
Worrall's Brick.....dis 20 %
Bradee & Walby's.....dis 20 %
Jarden.....dis 25 %
Rose's Brick.....dis 25 %

TRUCKS (WAREHOUSE, &C.)

Handy Truck.....$1.50 net
Penfield Block Co.'s list, 1882.....dis 30 %
Peerless, with Cogs, No. 3.....$3 net
Peerless, with Cogs, No. 4.....$4 net
Eureka, No. 2.....⅌ doz 40 00

VISES.

Chaney's Combined Vise and Anvil.....dis 30 %
Solid Box—Wilson's.....dis 50&10 %
" **Trenton**.....dis 40&5 %
" **Iron City Tool Works**.....dis 50&10 %
Manser Drill Mfg. Co's—
Machinist's Vise.....$36.00 doz. dis. 30 %
Beach—Wilson's.....dis 45 %
" **Trenton**.....dis 25 %
" **Parker's**.....dis 20 %
" **Prentiss**.....dis 25 %
" **Bonney's**.....dis 35 %
Wall Wheels.....dis 60&10&10 %
Stephen's Patent Vises.....

WIRE.

Brass and Copper, list of Jan. 17, 1884.....dis 25 %
Bright and Annealed.....Nos. 0@18, dis 60&10 %
Bright and Annealed.....Nos. 19@18, dis 65 %
Bright and Annealed.....Nos. 27@36, dis 65 %
Coppered.....Nos. 0@18, dis 65 %
Galvanized, Nos. 0 to 18.....Market list dis 40 %
Tinned, Nos. 0 to 18.....dis 60 %
Tinned Broom Wire, Nos. 18 to 25.....dis 60 %
Annealed Fence, Nos. 8@9.....dis 65 %
Annealed Grape, Nos. 10 to 14.....dis 65 %
Fence Staples, Galvanized.....⅌ lb 5c
Japanned Barb Fence.....⅌ lb 4c
Galvanized Barbed Fence.....⅌ lb 5c
Buck Thorn Galvanized.....⅌ lb 2¼ c
Picture Wire.....dis 60 %
Clothes Line Wire, Galvanized.....$2.75 ⅌ doz
Wire Cloth, gree , drab and black.....⅌ sq ft 2c net

WIRE NAILS.

Standard Penny Nails.....$2.90 Base.
Wire Nails List, November 16, 1882.....dis 70 %

WRENCHES.

American Adjustable.....dis 45 %
Baxter's Adjustable "S," list Jan., 1880.....dis 35 %
Baxter's Diagonal.....dis 35 %
Coes' Genuine.....dis 60 %
Coes' "Mechanics".....dis 60&10 %
Coes' Pattern, Malleable.....dis 50&10 %
Coes' Pattern, Wrought.....dis 60&10 %
Girard Standard.....dis 70&10 %
Girard Agt......dis 60&10 %
Always Ready.....$2.00—25 %
Collins' Wrenches.....dis 50, 10&5 %

WRINGERS.

	Per doz.	
Universal, XX, No. 0½	30.00	
Universal, XX, No. 0	32.00	
Universal, XX, No. 1½	41.00	net
Universal, XX, No. 1	63.00	net
Universal, XX, No. 2	each 12.75	net
Universal, XX, No. 12	each 10.25	net
Universal, XX, No. 18	each 22.75	net
Universal, XX, No. 22	each 30.25	net
Peerless, no Cogs, No. 1		40.00
Peerless, with Cogs, No. 0½		45.00
Peerless, with Cogs, No. 2		48.
Empire Wringers, size 3, purchase gear		$30 ⅌ doz.
" Bench " " "		$34 ⅌ doz.
Volunteer Wringers, size 10		$27 ⅌ doz.
" " size 11		$31.50 ⅌ doz.
Daisy Wringers		$20.50 ⅌ doz.

MISCELLANEOUS.

Empire Clothes Drying Bars.....$8 ⅌ doz.
"Diamond" Vegetable Grater.....$5.00 ⅌ doz., 10 %
Rotary Knife Potato Parer.....$18.00 ⅌ doz., net
Metallic Shingles.....$5.50 and $6.50 per square.
Hopper Cherry Seeders.....$2.75 ⅌ doz, net

NEW SCOTT MANFG. CO'S

Rotary Peach Parer	$15.00 ⅌ doz., net.	
Gold Medal Apple Parer	4.50	" "
Oriole Apple Parer, Corer & Slicer	4.50	" "
Victor " " "	15.00	" "
Improved Hopper Cherry Seeders	2.75	" "



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SOLE MANUFACTURERS OF THE
CELEBRATED PATENT EDGE
CORRUGATED IRON,
The only form thoroughly effective for roofing.
Also the most improved forms of Plain and Corrugated Iron and Steel Roofings, Siding, Ceilings, Metallic Lath, etc., with the largest and most complete stocks to be found anywhere.
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NEW LISBON, O.
AGENTS WANTED EVERYWHERE

THE CANTON STEEL ROOFING CO., Canton, Ohio.
FORMERLY CANTON IRON ROOFING CO.
Folded Lock Seam, Genuine
Steel Roofing
FIRE-PROOF SHUTTERS.
10 Foot Seamless Eave Trough.
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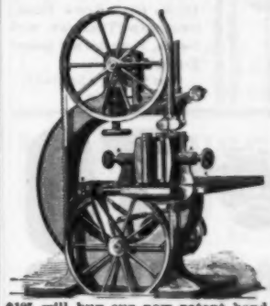
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TRADE NOTES.

THE Fred. J. Meyers Manufacturing Co., of Covington, Ky., issues a fine catalogue for the trade of its almost limitless list of products. These include wire and iron goods of almost every sort, from a mousetrap to handsome counter railings or elevator guards. The list of household utensils and appliances is very complete. Edge tools in variety are also made.

THE Abendroth & Root Manufacturing Co., 28 Cliff street, New York, builders of the Root sectional safety boiler, note an increase of business and the sale of 175 horsepower to the Atlas Paper Co., Appleton, Wis.; 600 horse-power to Samuel George, a paper manufacturer, Wellsboro, W. Va.; 906 horse-power to the Remington Paper Co., Watertown, N. Y., and a new plant to G. L. Jaeger, of New York City.

WE invite attention to the advertisement of Messrs. Barclay & Crockett, of Radford, Va., in this issue. They are live and energetic business men, progressive and fully awake to the fact that to attract capital to their section they must offer advantages. Capital is timid and needs to be coaxed. Sugar-coated humbugs are no longer swallowed by investors. Solid facts and rock bottom prices only can induce solid business men to take their capital out of bonds and stocks, to hunt new investments, promising larger returns. This firm have placed themselves in position to offer such inducements in city, farm and mineral properties, and we advise those seeking such investments to confer with them.

MENTION was recently made in this journal of the sale of the building, engine, etc., of the Cincinnati Corrugating Co., on Eggleston avenue, Cincinnati, Ohio, but we learn that this step is merely one in the important move the company is making towards occupying their new works at Piqua, Ohio. Among the new features of the business will be the manufacture of their own iron and steel sheets, under the auspices of the Piqua Rolling Mill Co., an allied concern. The large tract of land acquired just south of the flourishing city of Piqua will enable the two companies to extend their lines of specialties in many desired directions. The manufacture of all the sheet metal used by the company under their own immediate supervision is an advantage not easily estimated, in securing a uniform and superior quality.

WE learn that Dr. C. L. Goering, the inventor of the famous geometrical wood carving and moulding machine, has corresponded with and interviewed many of the leading wood-working machine manufacturers, inspecting their works, processes and methods of building machines, and after careful criticism and investigation decided to have his machines built by J. S. Graham & Co., designers and builders of high grade wood-working machinery, and has made a contract for them for that purpose. The placing of the contract with Messrs. Graham & Co. is a sufficient guarantee that the workmanship, etc., will be of the highest grade, and is a well-deserved compliment to that well-known firm. They will build the machines from an entire new set of patterns, made and designed at their own works, which will materially add to the general design, strength and durability of the machine, all of which will be brought out for the public at an early date. Each machine will be set up and tested by actual operation before shipment, and guaranteed to be perfect in every respect. In this connection we may add that we are reliably informed that the inventor could not find a shop in Pittsburg or Allegheny, Pa., that did a grade of work that was at all suitable in quality for his machine.

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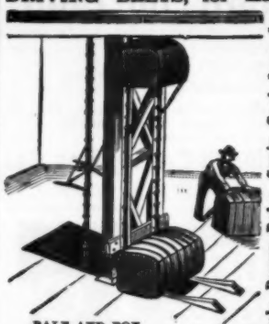
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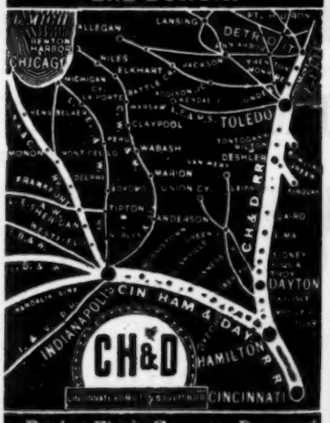
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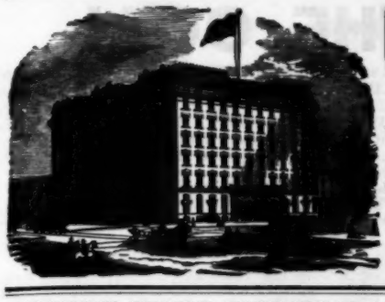
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AMONG the new uses to which the "patent friction covering" for pulleys, made by the National Pulley Covering Co., of Baltimore, has been put may be mentioned threshing machines and engines and horse-powers. As this class of machinery is exposed to the weather with no protection for a large portion of the year, a pulley covering which will stand is a most desirable thing to have, and this covering has proved its durability and efficiency in numerous tests.

THE mechanical and technical papers of England, France and Germany are illustrating the late improved machines of the Egan Co., of Cincinnati, Ohio, giving full and complete descriptions of the same, that their readers may learn of the progress being made in this country in wood-working machinery. The mechanical engineers of these countries recognize the tools of this company to be of best design, ingenuity and simplicity for rapid and perfect work, and their foreign trade, we learn, is now largely on the increase.

ROOT'S spiral riveted pipe is well adapted to paper manufacturers use. Among those who have sent Messrs Abendroth & Root Manufacturing Company, 28 Cliff street, New York, manufacturers, orders for it recently, we note the following firms: Winnepiseogee Paper Co., Franklin Falls, N. Y.; Montague Paper Co., Turners Falls, Mass.; Hon. Geo. West., Ballston Spa, N. Y; Hudson River Water Power & Paper Co., Mechanics Falls, N. Y.; Richmond Paper Co., Providence, R. I; Hudson River Pulp & Paper Co, Palmers Falls, N. Y. and Champlain Fibre Co, Wellsboro, N. Y.

THE De La Vergne Refrigerating Manufacturing Co, of New York, have about completed a large new factory and office building at the foot of East 138th street, Port Morris, New York, on the East river, in which they intend building their refrigerator and ice machines. The new factory occupies nearly one entire block, and has a water front of 250 feet on East river, with facilities for shipping by water as well as by rail. The switch of the New Haven road runs into the works. This last year, they inform us, has been one of the largest for contracts the company has had. Their Southern sales have shown more decided increase in proportion than other sections. The company expect to occupy their new works about August 1st.

RYAN & MCDONALD, of Waterloo, N. Y., are building a great many dump cars for Southern trade, and are supplying them to contractors on grading and to brick-yards. They now have cars in every Southern State, and informs us that all who are using them report them far superior to anything they ever saw or used, and that grading becomes very easy and rapid work. A team on the dump will draw 15 cubic yards of earth and keep it up all day, beside hauling more loads per day. These cars are simple in construction and, built of the best selected white oak, are very strong and durable, while the price is within the reach of all. This firm also manufacture light locomotives of the most approved patterns and designs for contractors, lumber roads and, in fact, for any narrow gauge track, and put out a full line of contractors' supplies. Being old and prominent railroad contractors they have learned by experience just what is wanted in all kinds of grading and construction, and these supplies are the results of their labors. Everything put out by this firm is guaranteed to be as represented by them, and their guaranty is good for its face. Write for catalogue and prices, stating wants, and we are satisfied you will be amply paid for your time and trouble.

THE mammoth sugar refinery of Claus Spreckels, of Philadelphia, is being equipped with its apparatus. The steam plant consists of thirty Babcock & Wilcox boilers, which are located on the first and second floors of the building. Each boiler is fired by a pair of Roney mechanical stokers, making sixty stokers in all. The stoker plant, together with the complete coal conveying apparatus, is put in by Westinghouse, Church, Kerr & Co., of New York, and is so arranged that the coal is handled mechanically, and without manual labor of any kind, from the time the car of coal is dumped until the ashes are shot into the ash vault. Mr. Spreckels has thus far contracted for 31 Westinghouse engines as a part of the power plant. Fifteen of these engines, each of 60 horse-power, are for driving the centrifugal dryers, each engine being coupled direct to its own dryer, dispensing altogether with line shafting. The investigations on the part of Mr. Spreckels, together with his architect and engineer, which led up to this arrangement, were unusually interesting and complete. An entire set of apparatus was shipped to the Westinghouse Machine Co., at Pittsburgh, together with a supply of raw sugar and the necessary workmen. The plant, including the engine, was duly erected and the processes gone through with and the sugar refined on the spot. The power required, and cost of same, was thus carefully ascertained, and the order for engines placed accordingly.

CONTEMPLATE ERECTING COTTON COMPRESS.—WASHINGTON, GA., June 26, 1889.—We are thinking of building here a compress, and probably will sometime during the next three months.

LYNDON & COLLEY.

HOTEL TO BE BUILT AT DENISON, TEXAS.—DENISON, TEXAS, June 26, 1889.—A large hotel will soon be erected. Brick already contracted for. It will be built by Mr. W. P. Rice and Dr. Ford.

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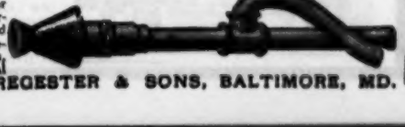
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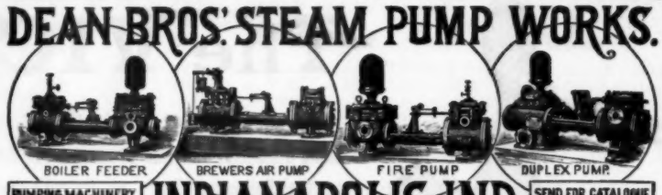
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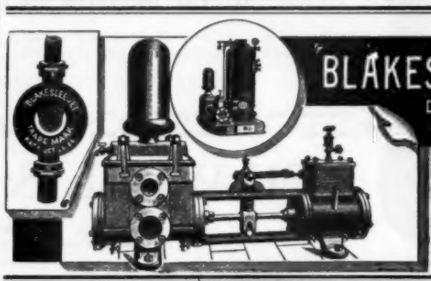


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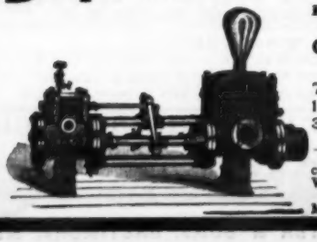
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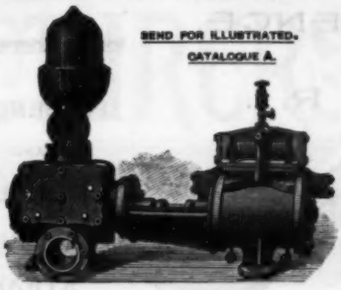
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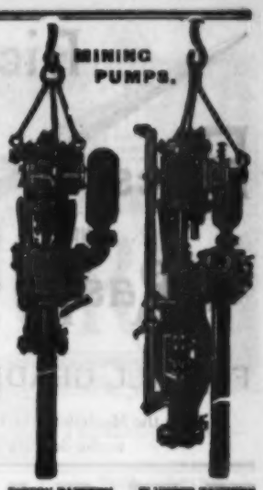
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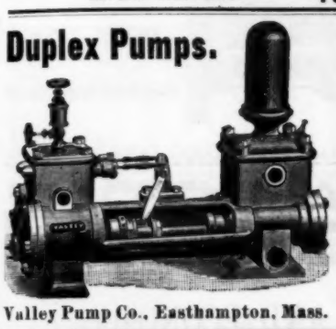


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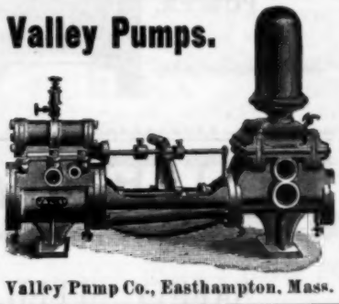
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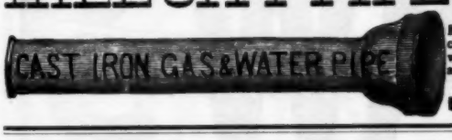
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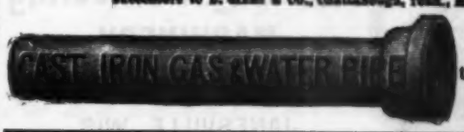


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